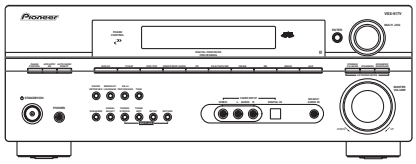
Pioneer sound.vision.soul

Service Manual



VSX-917V-K

ORDER NO.
RRV3549

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-917V-K
VSX-917V-S
VSX-817-K
VSX-817-S

THIS MANUAL IS APPLICABLE TO THE FOLLOWINGMODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
VSX-917V-K	KUXJ/CA	AC 120 V	
VSX-917V-S	KUXJ/CA	AC 120 V	
VSX-817-K	KUXJ/CA	AC 120 V	
VSX-817-S	KUXJ/CA	AC 120 V	

For details, refer to "Important Check Points for Good Servicing".

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ⓒ**PIONEER CORPORATION 2007**

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SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

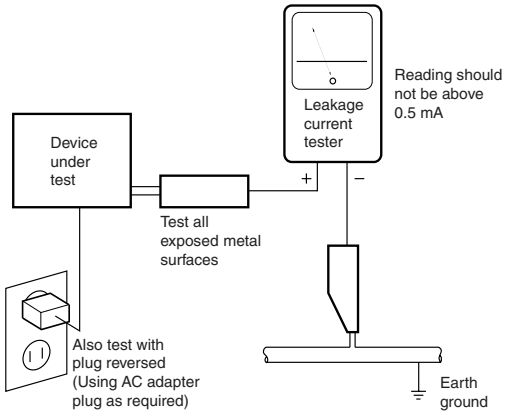
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Leakage current tester
Reading should not be above 0.5 mA
Device under test
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SPECIFICATIONS

Amplifier section

- **Continuous power output (stereo)**

Front. . 110 W (20 Hz to 20 kHz, THD 0.2 %, 8 Ω)[1]

- **Rated power output**

(surround / 20 Hz to 20 kHz, THD 0.07 %, 8 Ω)
Front. . . . . 90 W per channel
Center . . . . . 90 W
Surround . . . . . 90 W per channel
Surround Back . . . . . .90 W per channel

- **Rated power output**

(surround / 1 kHz, THD 1 %, 8Ω)
Front. . . . . 120 W per channel
Center . . . . . .120 W
Surround . . . . . 120 W per channel
Surround Back . . . . . .120 W per channel

Audio section

- **Input (Sensitivity/Impedance)**

CD, DVR/VCR, CD-R/TAPE/MD,
DVD/LD, TV/SAT . . . . . 200 mV/47 kΩ

- **Frequency response**

CD, DVR/VCR, CD-R/TAPE/MD, DVD/LD,
TV/SAT . . . . . 5 Hz to 100 000 Hz $^{+0}_{-3}$dB

- **Output (Level/Impedance)**

DVR/VCR REC, CD-R/TAPE/
MD REC. . . . . 200 mV/2.2 kΩ

- **Tone control**

Bass. . . . . .± 6 dB (100 Hz)
Treble. . . . . .± 6 dB (10 kHz)
Loudness. . . . . +10 dB/+5 dB (100 Hz/10 kHz)
(at volume level -50 dB)

- **Signal-to-Noise Ratio (IHF, short circuited, A network)**

CD, DVR/VCR, CD-R/TAPE/MD,
DVD/LD, TV/SAT . . . . . 96 dB

- **Signal-to Noise Ratio [EIA, at 1 W (1 kHz)]**

CD, DVR/VCR, CD-R/TAPE/MD,
DVD/LD, TV/SAT. . . . . .79 dB

Video Section

- **Input (Sensitivity/Impedance)**

DVR/VCR, DVD/LD, TV/SAT.....1 Vp-p/75 Ω

- **Output (Level/Impedance)**

DVR/VCR, MONITOR OUT.....1 Vp-p/75 Ω

- **Frequency response**

DVR/VCR, DVD/LD,
TV/SAT - MONITOR. . . . . 5 Hz to 7 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio . . . . . 55 dB
Crosstalk. . . . . 50 dB

Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.

Component video section

- **Input (Sensitivity)**

DVD/LD, TV/SAT, DVR/VCR . . . . . 1 Vp-p/75 Ω

- **Output (Level/Impedance)**

MONITOR OUT . . . . . 1 Vp-p/75 Ω

- **Frequency response**

DVD/LD, TV/SAT,
DVR/VCR ⇨ MONITOR . . . . 5 Hz to 40 MHz $^{+0}_{-3}$dB
Signal-to-Noise Ratio . . . . . 60 dB

FM Tuner Section

Frequency Range. . . . . .87.5 MHz to 108 MHz
Usable Sensitivity. . . . . .Mono:13.2 dBf, IHF
(1.3 µV/ 75 Ω)
50 dB Quieting Sensitivity. . . . . Mono: 20.2 dB
Stereo: 38.6 dBf
Signal-to-Noise Ratio. . . . Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Distortion . . . . . Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity . . . . . 60 dB
(400 kHz)
Stereo Separation . . . . . 40 dB (1 kHz)
Frequency Response. . . . . 30 Hz to 15 kHz
(±1 dB)
Antenna Input (DIN). . . . . 75Ω unbalanced

AM Tuner Section

Frequency Range. . . . . 530 kHz to 1700 kHz
Sensitivity (IHF, Loop antenna) . . . . . 350 µV/m
Signal-to-Noise Ratio . . . . . 50 dB
Antenna . . . . . Loop antenna

Miscellaneous

Power requirements. . . . . AC 120 V / 60 Hz
Power consumption . . . . . 405 W / 545 VA
In standby. . . . . 0.5 W
Dimensions
. . . . .420 (W) mm x 158 (H) mm x 352.5 (D) mm
$16^{9}/_{16}$ (W) in. x $6^{1}/_{4}$ (H) in. x $13^{7}/_{8}$ (D) in.
Weight (without package). . . . . 9.2 kg (20.3 lb) (VSX-917V)
Weight (without package). . . . . 8.7 kg (VSX-817)

Furnished Parts

Microphone (for Auto MCACC setup) 1
Dry cell batteries (AA size IEC R6) 2
Remote control 1
AM loop antenna. 1
FM wire antenna 1
Operating instructions

Note

1Continuous average power output of 110 watts* per channel, min., at 8 ohms, from 20 Hz to 20 000 Hz with no more than 0.2 %** total harmonic distortion (front).
* Measured pursuant to the Federal Trade Commissionís Trade Regulation rule on Power Output Claims for Amplifiers.
** Measured by Audio Spectrum Analyzer.

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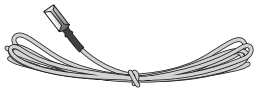
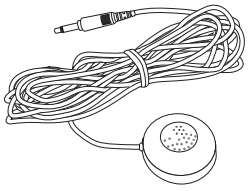
Accessories

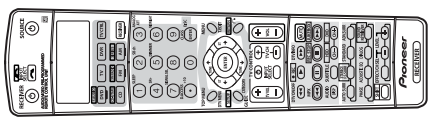
AM loop antenna
(ATB7013)

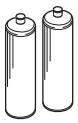


FM wire antenna
(ADH7030)



Microphone
(for Auto MCACC setup)
(APM7008)





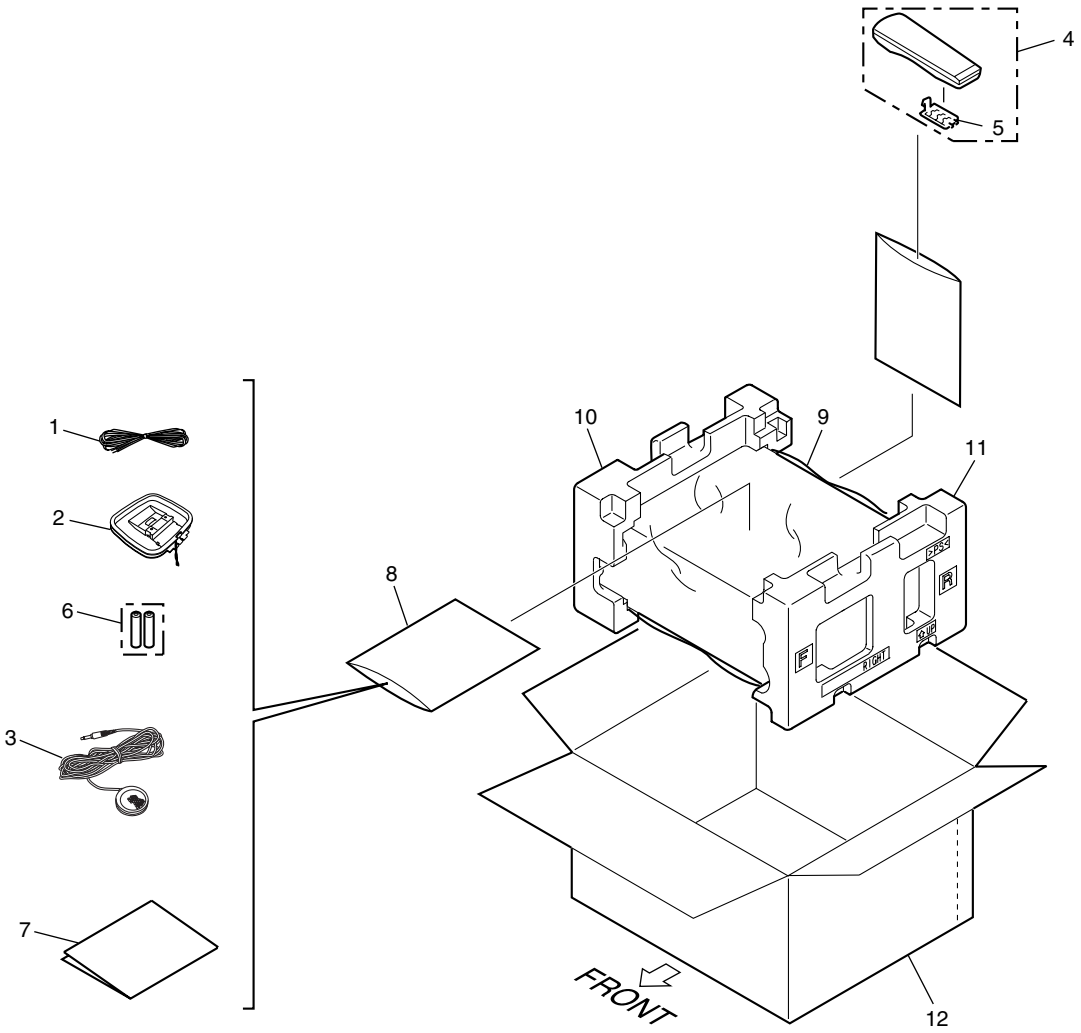
Remote control
(VSX-917V : XXD3127)
(VSX-817 : XXD3132)

AA size IEC R6
Dry cell batteries (x2)

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

2.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

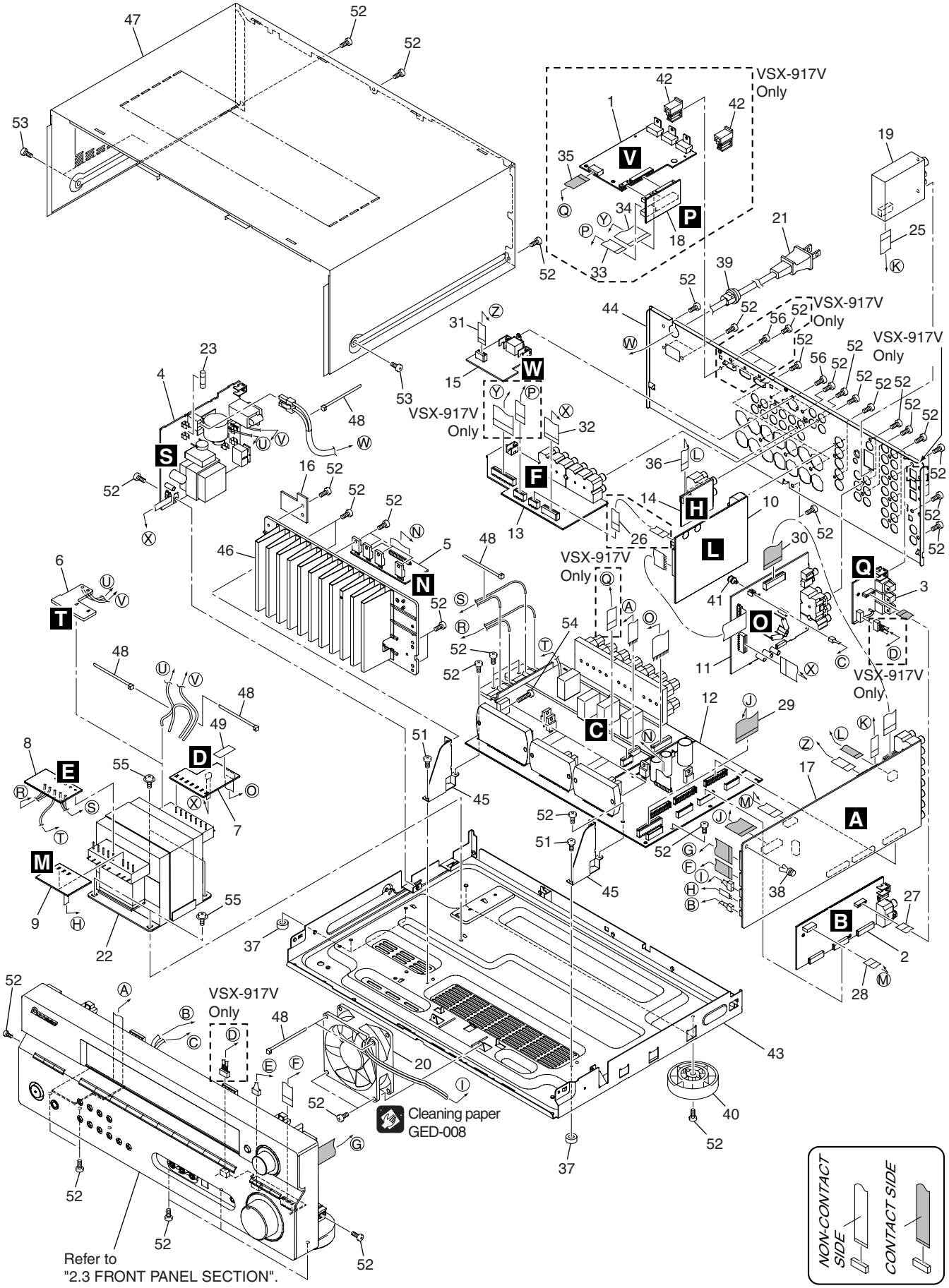
Mark	No.	Description	Part No.
	1	FM Wire Antenna	ADH7030
	2	AM Loop Antenna	ATB7013
	3	Microphone (for Auto MCACC setup)	APM7008
	4	Remote Control	See Contrast table (2)
	5	Battery Cover	See Contrast table (2)
NSP	6	Dry Cell Battery (AA, R6)	See Contrast table (2)
	7	Operating Instructions (English)	See Contrast table (2)
NSP	8	Polyethylene Bag (0.06*230*340)	AHG7117
	9	Packing Sheet	AHG7069
	10	Left Pad V3	XHA3158
	11	Right Pad V3	XHA3159
	12	Packing Case	See Contrast table (2)

(2) CONTRAST TABLE

VSX-917V-K/KUXJ/CA, VSX-917V-S/KUXJ/CA, VSX-817-K/KUXJ/CA and VSX-817-S/KUXJ/CA are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-917V-K /KUXJ/CA	VSX-917V-S /KUXJ/CA	VSX-817-K /KUXJ/CA	VSX-817-S /KUXJ/CA
	4	Remote Control	XXD3127	XXD3127	XXD3132	XXD3132
	5	Battery Cover	XZN3140	XZN3140	AZN7933	AZN7933
NSP	6	Dry Cell Battery (AA, R6)	XEX3001	XEX3001	XEX3002	XEX3002
	7	Operating Instructions (English)	XRB3072	XRB3072	XRB3073	XRB3073
	12	Packing Case	XHD3663	XHD3664	XHD3672	XHD3673

2.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	HDMI & DVC Assy	See Contrast table (2)
	2	DSP Assy	AWX8809
	3	DIGITAL INPUT Assy	See Contrast table (2)
	4	PRIMARY Assy	XWZ4218
	5	REGULATOR Assy	See Contrast table (2)
	6	TRANS1 Assy	XWZ4224
	7	TRANS2 Assy	See Contrast table (2)
	8	TRANS3 Assy	XWZ4246
	9	TRANS4 Assy	XWZ4225
	10	S.VIDEO Assy	See Contrast table (2)
	11	COMP VIDEO Assy	See Contrast table (2)
	12	POWER PACK Assy	See Contrast table (2)
	13	COMPONENT VIDEO Assy	See Contrast table (2)
	14	5.1CH INPUT Assy	XWZ4249
	15	SIRIUS Assy	XWZ4251
	16	BIND Assy	XWZ4252
	17	MAIN Assy	See Contrast table (2)
	18	BOARD TO BOARD Assy	See Contrast table (2)
	19	FM/AM TUNER Unit	AXX7210
⚠	20	DC Fan Motor	XXM3012
⚠	21	AC Power Cord	ADG7024
⚠	22	Power Transformer (T1501)	See Contrast table (2)
⚠	23	Fuse (FU1 : 10 A)	REK1154
	24	•••••	
	25	11P Flexible Cable/30V	XDD3189
	26	7P Flexible Cable/30V	See Contrast table (2)
	27	10P Flexible Cable/30V	XDD3196
	28	12P Flexible Cable/30V	XDD3198
	29	17P Flexible Cable/30V	XDD3203
	30	21P Flexible Cable/30V	See Contrast table (2)
	31	7P Flexible Cable/30V	XDD3222
	32	15P Flexible Cable/30V	See Contrast table (2)
	33	9P Flexible Cable/30V	See Contrast table (2)
	34	23P Flexible Cable/30V	See Contrast table (2)
	35	9P Flexible Cable/30V	See Contrast table (2)
	36	7P Flexible Cable/30V	XDD3235
NSP	37	Spacer	AEB7092
	38	Push Rivet	AEC7205
	39	Cord Stopper	CM-22C
	40	Insulator	PNW2766
NSP	41	Card Spacer	See Contrast table (2)
	42	HDMI Support	See Contrast table (2)
NSP	43	Chassis 816	XNA3026
	44	Rear Panel	See Contrast table (2)
	45	Heatsink Angle V3	XNG3145
NSP	46	Heatsink	XNH3043
	47	Bonnet	See Contrast table (2)
NSP	48	Binder (BK-1)	ZCA-BK1
	49	ICP Label	See Contrast table (2)
	50	•••••	
	51	Screw	BBZ30P060FCC
	52	Screw	BBZ30P080FNI
	53	Screw	See Contrast table (2)
	54	Screw	BBZ30P140FTC
	55	Screw	BBZ40P080FNI
	56	Screw	PMZ30P060FCC

(2) CONTRAST TABLE

VSX-917V-K/KUXJ/CA, VSX-917V-S/KUXJ/CA, VSX-817-K/KUXJ/CA and VSX-817-S/KUXJ/CA are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-917V-K /KUXJ/CA	VSX-917V-S /KUXJ/CA	VSX-817-K /KUXJ/CA	VSX-817-S /KUXJ/CA
	1	HDMI & DVC Assy	AWQ7039	AWQ7039	Not used	Not used
	3	DIGITAL INPUT Assy	XWZ4213	XWZ4213	XWZ4212	XWZ4212
	5	REGULATOR Assy	XWZ4221	XWZ4221	XWZ4222	XWZ4222
	7	TRANS2 Assy	XWZ4245	XWZ4245	XWZ4244	XWZ4244
	10	S.VIDEO Assy	XWZ4228	XWZ4228	XWZ4210	XWZ4210
	11	COMP VIDEO Assy	XWZ4267	XWZ4267	Not used	Not used
	11	VIDEO Assy	Not used	Not used	XWZ4208	XWZ4208
	12	POWER PACK Assy	XWZ4239	XWZ4239	XWZ4235	XWZ4235
	13	COMPONENT VIDEO Assy	XWZ4248	XWZ4248	XWZ4247	XWZ4247
	17	MAIN Assy	XWK3307	XWK3307	XWK3303	XWK3303
	18	BOARD TO BOARD Assy	XWZ4268	XWZ4268	Not used	Not used
⚠	22	Power Transformer (T1501)	XTS3107	XTS3107	XTS3101	XTS3101
	26	7P Flexible Cable/30V	XDD3191	XDD3191	Not used	Not used
	30	21P Flexible Cable/30V	XDD3221	XDD3221	Not used	Not used
	30	13P Flexible Cable/30V	Not used	Not used	XDD3220	XDD3220
	32	15P Flexible Cable/30V	XDD3223	XDD3223	Not used	Not used
	32	7P Flexible Cable/30V	Not used	Not used	XDD3235	XDD3235
	33	9P Flexible Cable/30V	XDD3224	XDD3224	Not used	Not used
	34	23P Flexible Cable/30V	XDD3225	XDD3225	Not used	Not used
	35	9P Flexible Cable/30V	XDD3226	XDD3226	Not used	Not used
NSP	41	Card Spacer	REC1156	REC1156	Not used	Not used
NSP	41	PCB Spacer (3x6)	Not used	Not used	AEC7156	AEC7156
	42	HDMI Support	XMR3107	XMR3107	Not used	Not used
	44	Rear Panel	XNC3466	XNC3467	XNC3476	XNC3477
	47	Bonnet	XZN3183	XZN3184	XZN3183	XZN3184
	49	ICP Label	XAX3121	XAX3121	XAX3120	XAX3120
	53	Screw	BBZ30P080FTB	BBZ30P080FNI	BBZ30P080FTB	BBZ30P080FNI

A

B

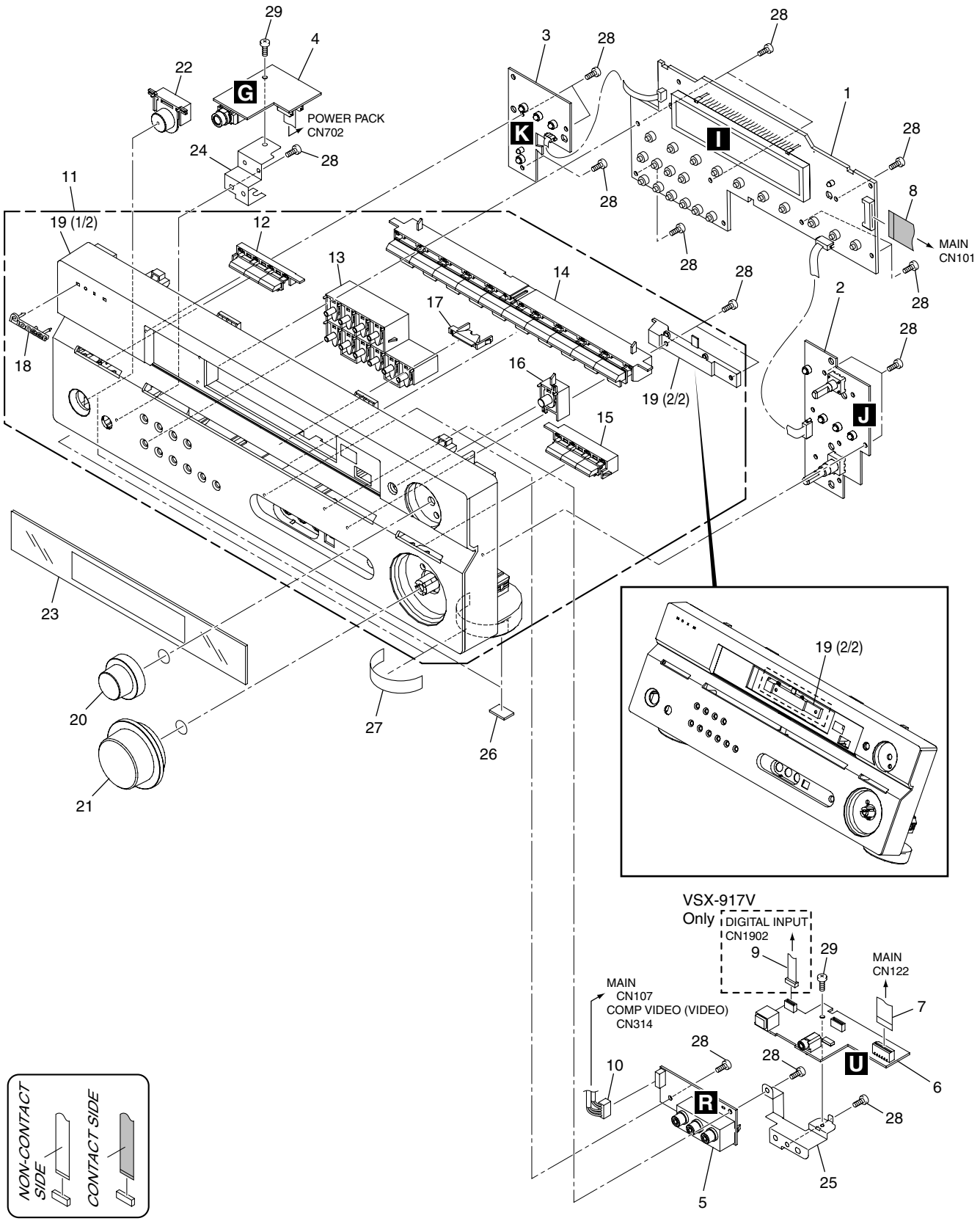
C

D

E

F

2.3 FRONT PANEL SECTION



(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	FRONT DISPLAY Assy	See Contrast table (2)
	2	ROTARY ENCODER Assy	XWZ4205
	3	POWER KEY Assy	XWZ4254
	4	HEADPHONE Assy	XWZ4265
	5	FRONT VIDEO Assy	XWZ4214
	6	FRONT IN Assy	See Contrast table (2)
	7	11P Flexible Cable/30V	XDD3218
	8	17P Flexible Cable/30V	XDD3200
	9	5P Shield Cable	See Contrast table (2)
	10	5P Shield Cable	XDX3054
NSP	11	Front Panel Assy	See Contrast table (2)
	12	TUNER Button	See Contrast table (2)
	13	SUB Button	See Contrast table (2)
	14	FUNCTION Button	See Contrast table (2)
	15	LISTEN Button	See Contrast table (2)
	16	JOG Button	See Contrast table (2)
	17	C Lens V3	XAK3534
	18	Pioneer Name Plate	See Contrast table (2)
	19	Front Panel	See Contrast table (2)
	20	JOG Knob	See Contrast table (2)
	21	VOL Knob	See Contrast table (2)
	22	STANDBY Button Assy	See Contrast table (2)
	23	D Panel MCACC/CL/PC	XAK3567
	24	Earth Plate HP V2 (M)	XNG3131
	25	Earth Plate FR V3	XNG3144
	26	Rubber Sheet	AEB1111
NSP	27	Gold Foil Label	XAX3487
	28	Screw	BPZ30P080FTC
	29	Screw	BBZ30P080FNI

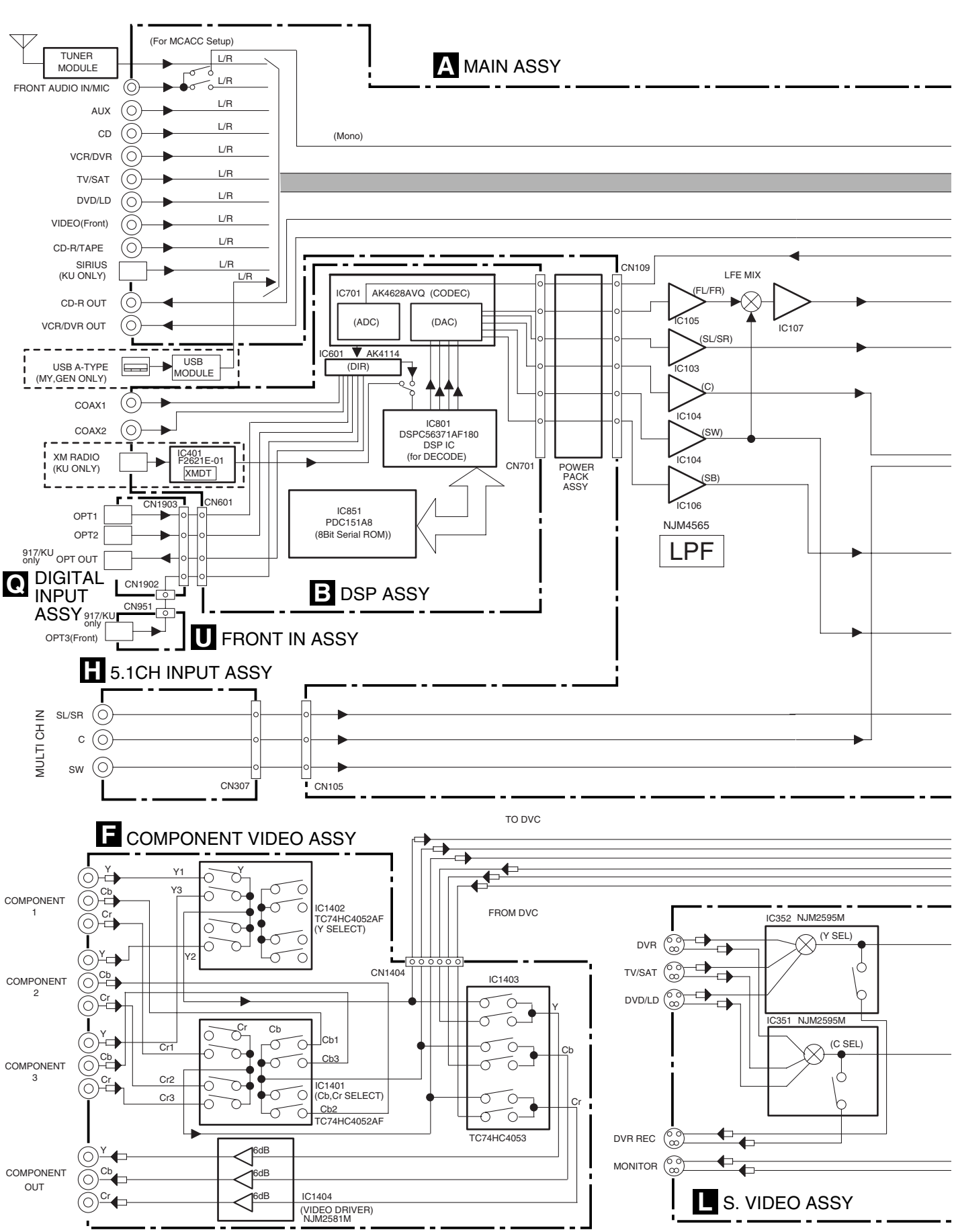
(2) CONTRAST TABLE

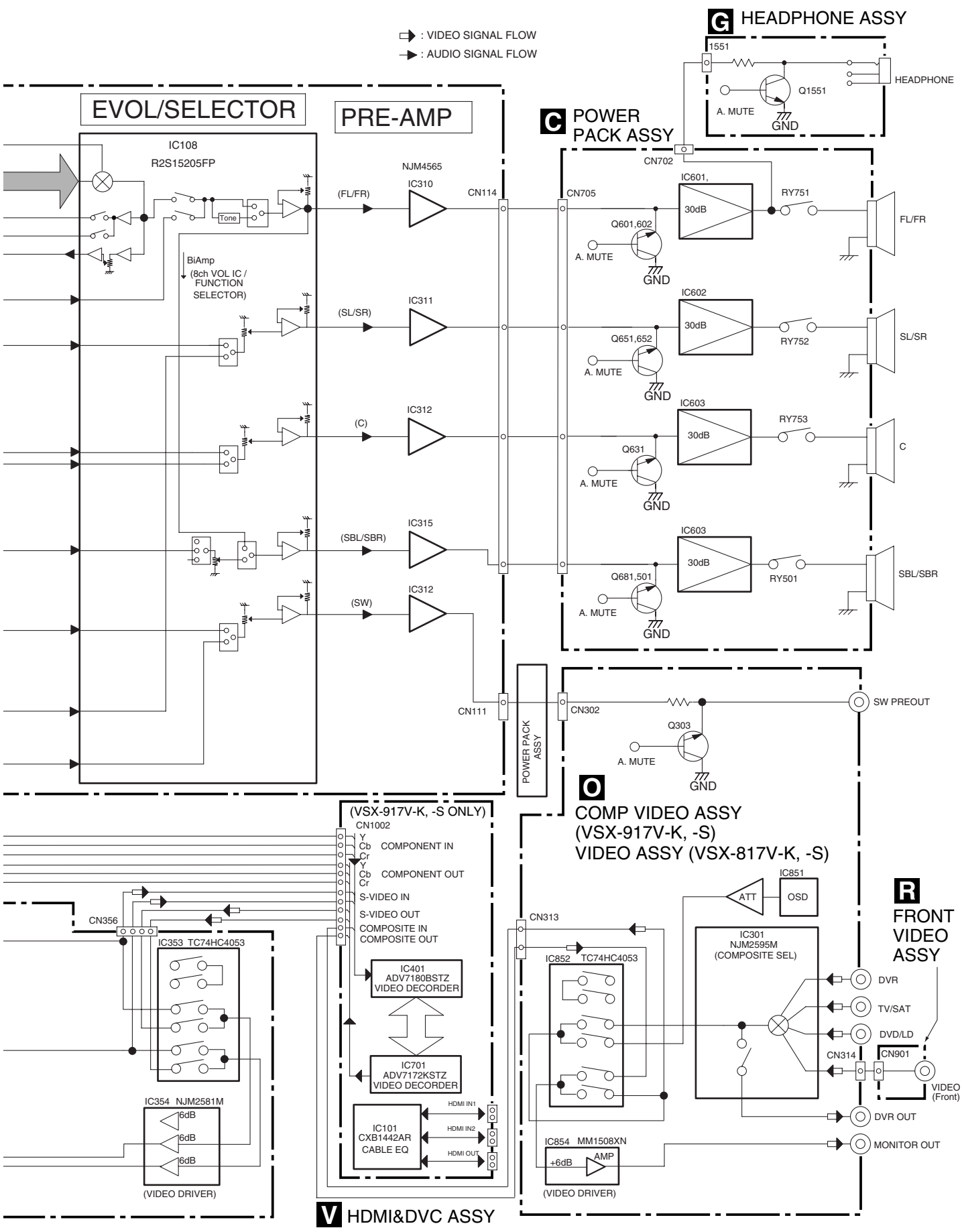
VSX-917V-K/KUXJ/CA, VSX-917V-S/KUXJ/CA, VSX-817-K/KUXJ/CA and VSX-817-S/KUXJ/CA are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-917V-K /KUXJ/CA	VSX-917V-S /KUXJ/CA	VSX-817-K /KUXJ/CA	VSX-817-S /KUXJ/CA
	1	FRONT DISPLAY Assy	XWZ4204	XWZ4204	XWZ4203	XWZ4203
	6	FRONT IN Assy	XWK3313	XWK3313	XWK3311	XWK3311
	9	5P Shield Cable	XDX3027	XDX3027	Not used	Not used
NSP	11	Front Panel Assy	XXG3278	XXG3279	XXG3286	XXG3287
	12	TUNER Button	XAD3230	XAD3248	XAD3230	XAD3248
	13	SUB Button	XAD3231	XAD3249	XAD3231	XAD3249
	14	FUNCTION Button	XAD3232	XAD3250	XAD3232	XAD3250
	15	LISTEN Button	XAD3233	XAD3251	XAD3233	XAD3251
	16	JOG Button	XAD3240	XAD3252	XAD3240	XAD3252
	18	Pioneer Name Plate	XAM3006	VAM1129	XAM3006	VAM1129
	19	Front Panel	XMB3248	XMB3249	XMB3256	XMB3257
	20	JOG Knob	XAB3052	XAB3054	XAB3052	XAB3054
	21	VOL Knob	XAB3053	XAB3056	XAB3053	XAB3056
	22	STANDBY Button Assy	XAD3216	XAD3217	XAD3216	XAD3217

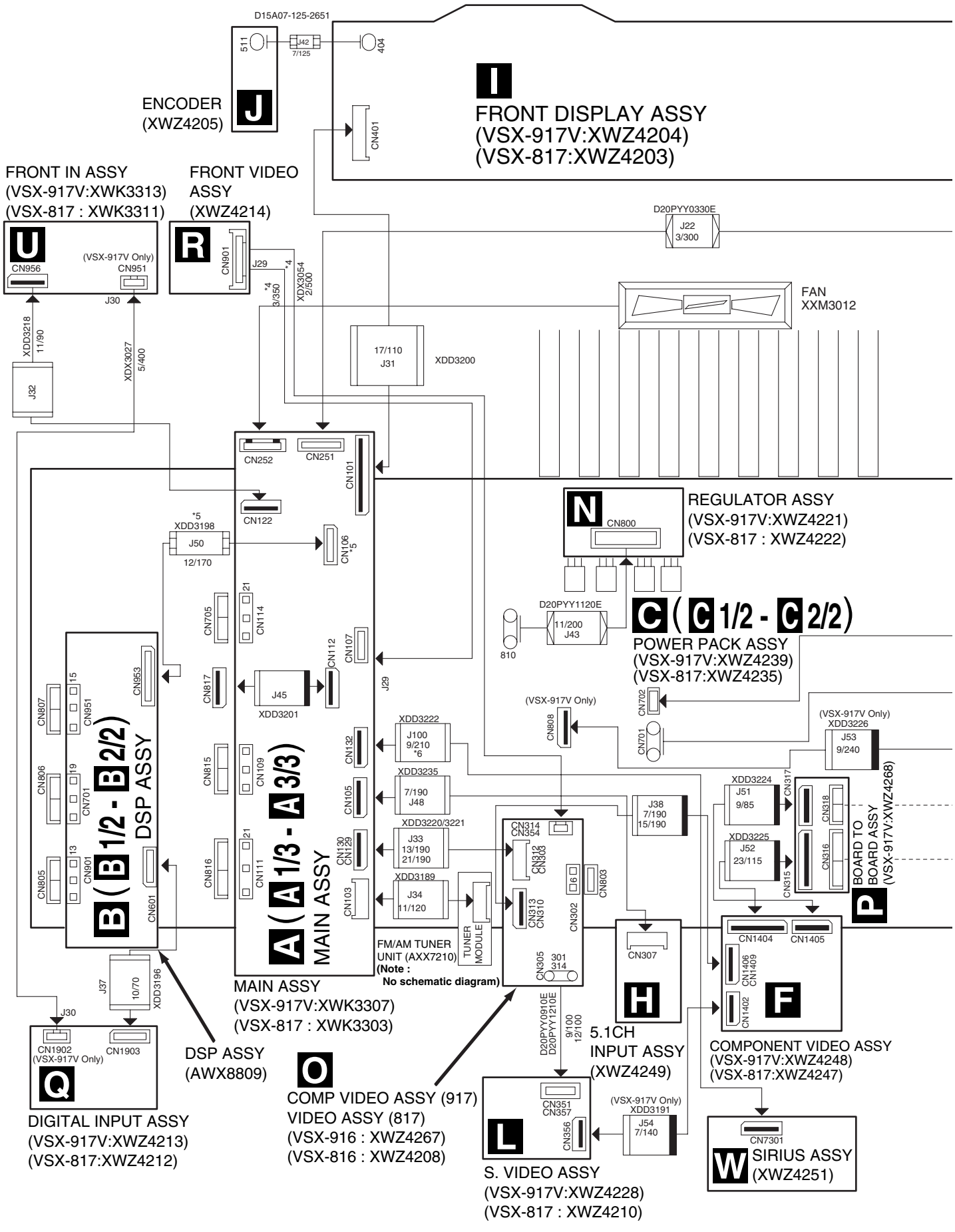
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

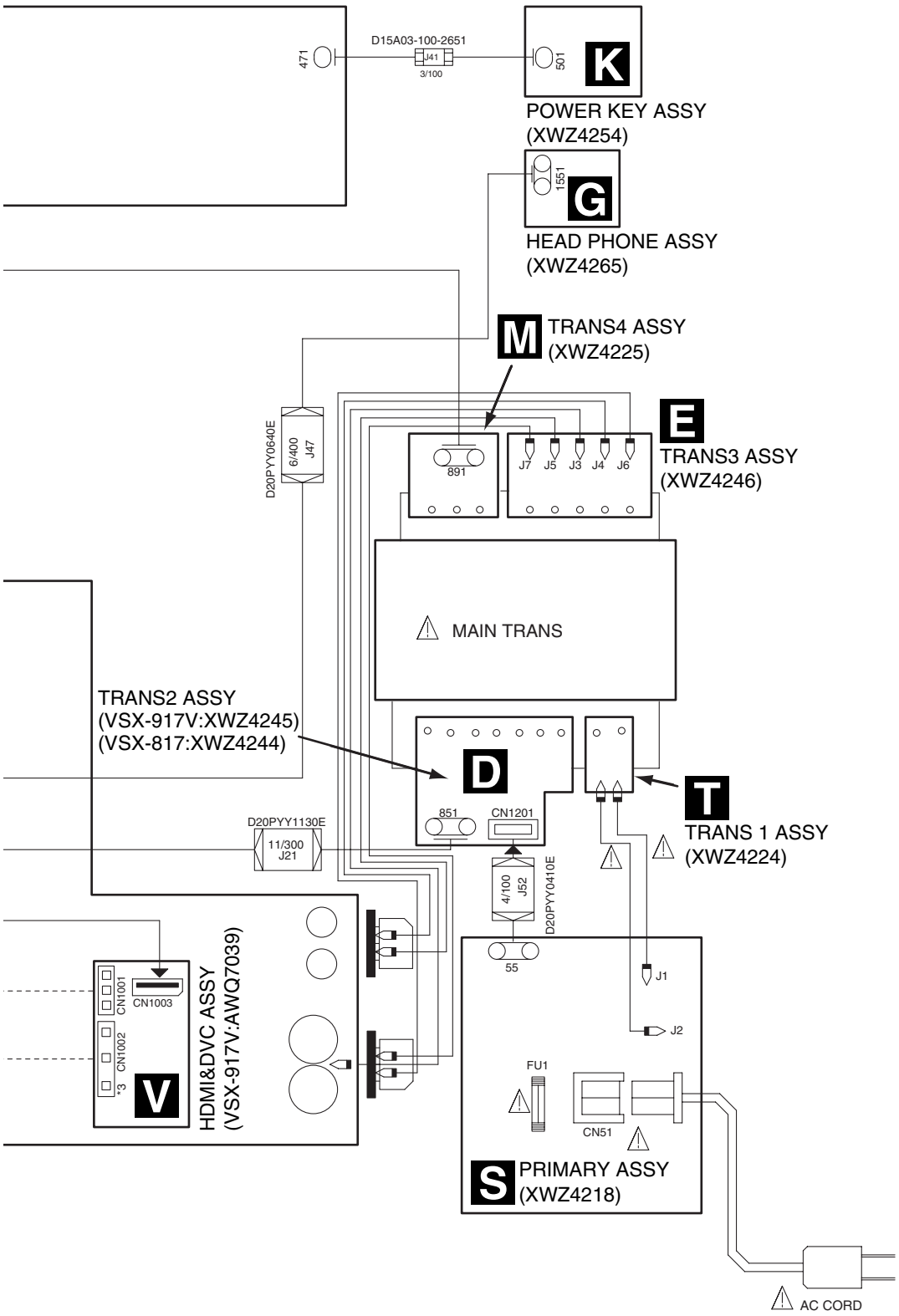
3.1 BLOCK DIAGRAM




: VIDEO SIGNAL FLOW
: AUDIO SIGNAL FLOW
G HEADPHONE ASSY
1551
HEADPHONE
Q1551
A. MUTE
GND
EVOL/SELECTOR
PRE-AMP
IC108
R2S15205FP
Tone
BiAmp
(8ch VOL IC / FUNCTION SELECTOR)
NJM4565
IC310
(FL/FR)
CN114
C POWER PACK ASSY
CN702
CN705
IC601,
30dB
RY751
FL/FR
Q601,602
IC311
(SL/SR)
IC602
Q651,652
RY752
SL/SR
IC312
(C)
IC603
Q631
RY753
C
IC315
(SBL/SBR)
Q681,501
RY501
SBL/SBR
IC312
(SW)
CN111
POWER PACK ASSY
CN302
Q303
SW PREOUT
O
COMP VIDEO ASSY
(VSX-917V-K, -S)
VIDEO ASSY (VSX-817V-K, -S)
(VSX-917V-K, -S ONLY)
CN1002
Y
Cb
Cr
COMPONENT IN
COMPONENT OUT
S-VIDEO IN
S-VIDEO OUT
COMPOSITE IN
COMPOSITE OUT
CN356
IC353 TC74HC4053
IC401
ADV7180BSTZ
VIDEO DECORDER
IC701
ADV7172KSTZ
VIDEO DECORDER
IC354 NJM2581M
6dB
6dB
6dB
(VIDEO DRIVER)
IC101
CXB1442AR
CABLE EQ
HDMI IN1
HDMI IN2
HDMI OUT
V HDMI&DVC ASSY
CN313
IC852 TC74HC4053
IC851
ATT
OSD
IC301
NJM2595M
(COMPOSITE SEL)
R
FRONT VIDEO ASSY
DVR
TV/SAT
DVD/LD
CN314
CN901
VIDEO (Front)
DVR OUT
MONITOR OUT
IC854 MM1508XN
+6dB
AMP
(VIDEO DRIVER)

3.2 OVERALL WIRING CONNECTION DIAGRAM





B*B-PH-K-S
PH CONNECTOR
B*B-EH
EH CONNECTOR
1.0mm FFC
1.25mm FFC
1.25mm REVERSE FFC
2.0mm FLAT CABLE
1.5mm FLAT CABLE

BOARD IN
1.0mm FFC CONNECTOR
1.25mm FFC CONNECTOR(L)
1.25mm FFC CONNECTOR
2.0mm CABLE HOLDER
1.5mm CABLE HOLDER
2.0mm CABLE CONNECTOR

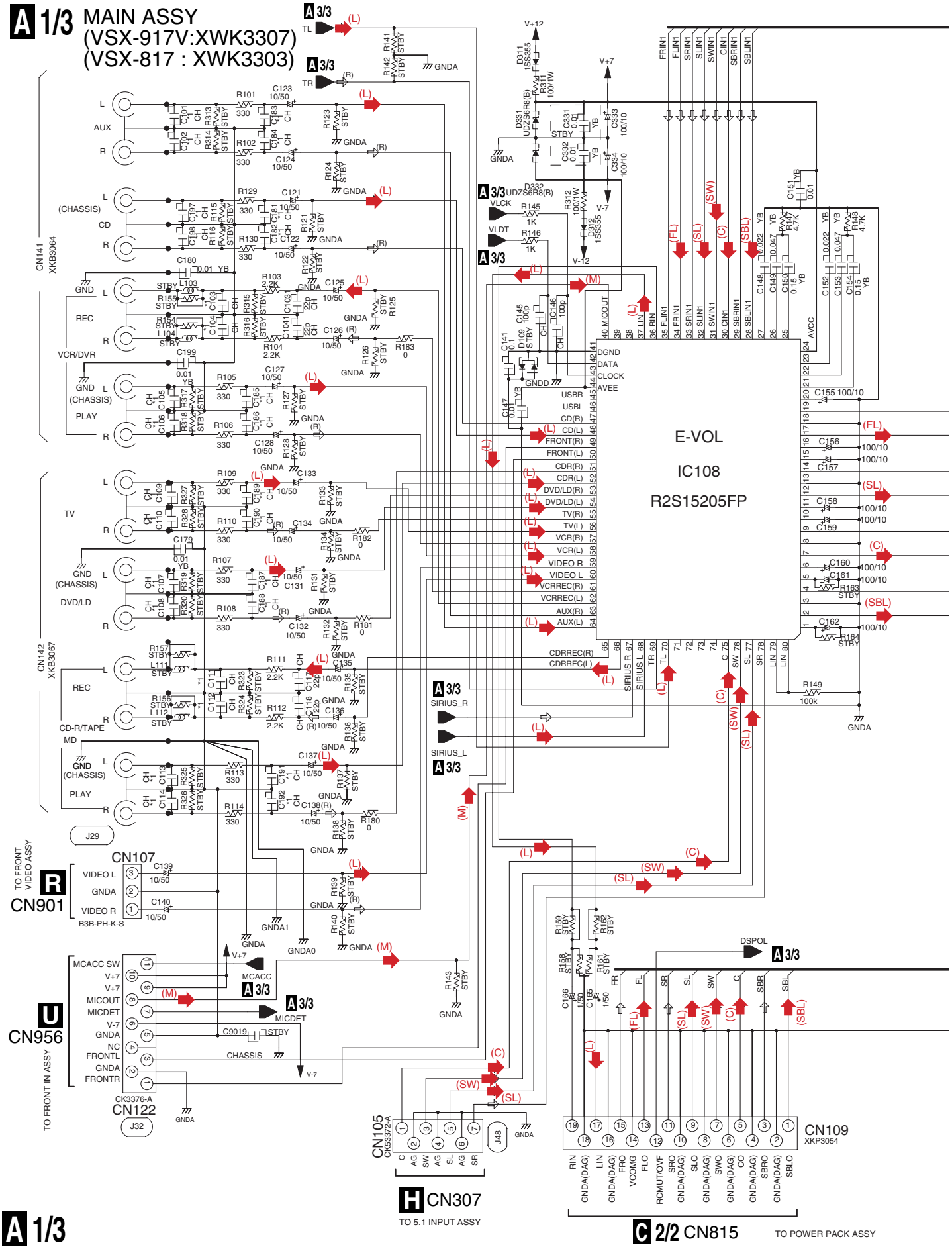
2.0mm BOARD to BOARD SOCKET
2.0mm BOARD to BOARD PLUG
1.25mm BOARD to BOARD SOCKET
1.25mm BOARD to BOARD PLUG
AC CODE SOCKET
AC CODE CONNECTOR

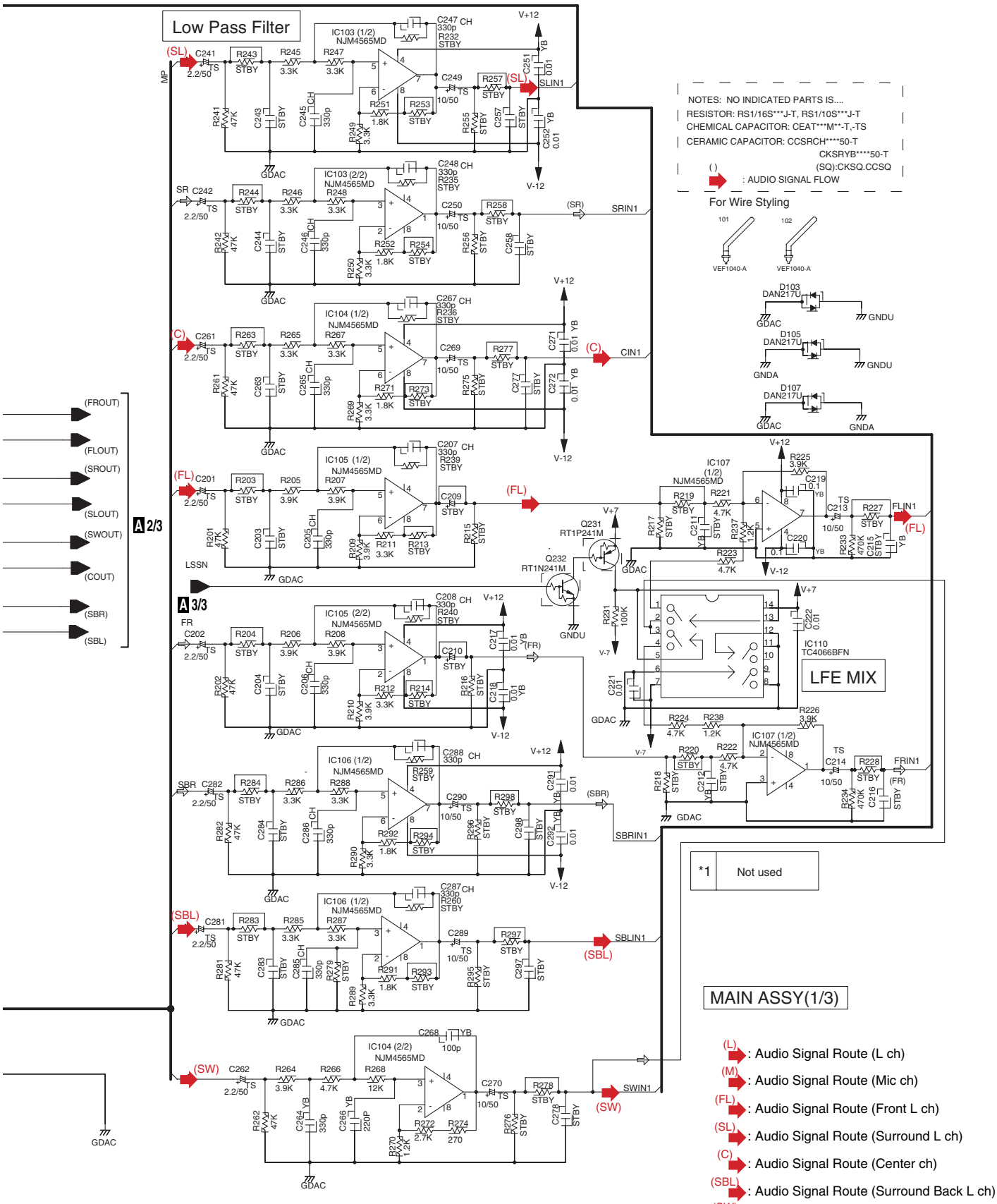
WIRE INDICATION
E.g. 7/140
7: Number of contacts (pin)
140: Insulation length (mm)

- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply is shown with the marked box.

3.3 MAIN ASSY (1/3)

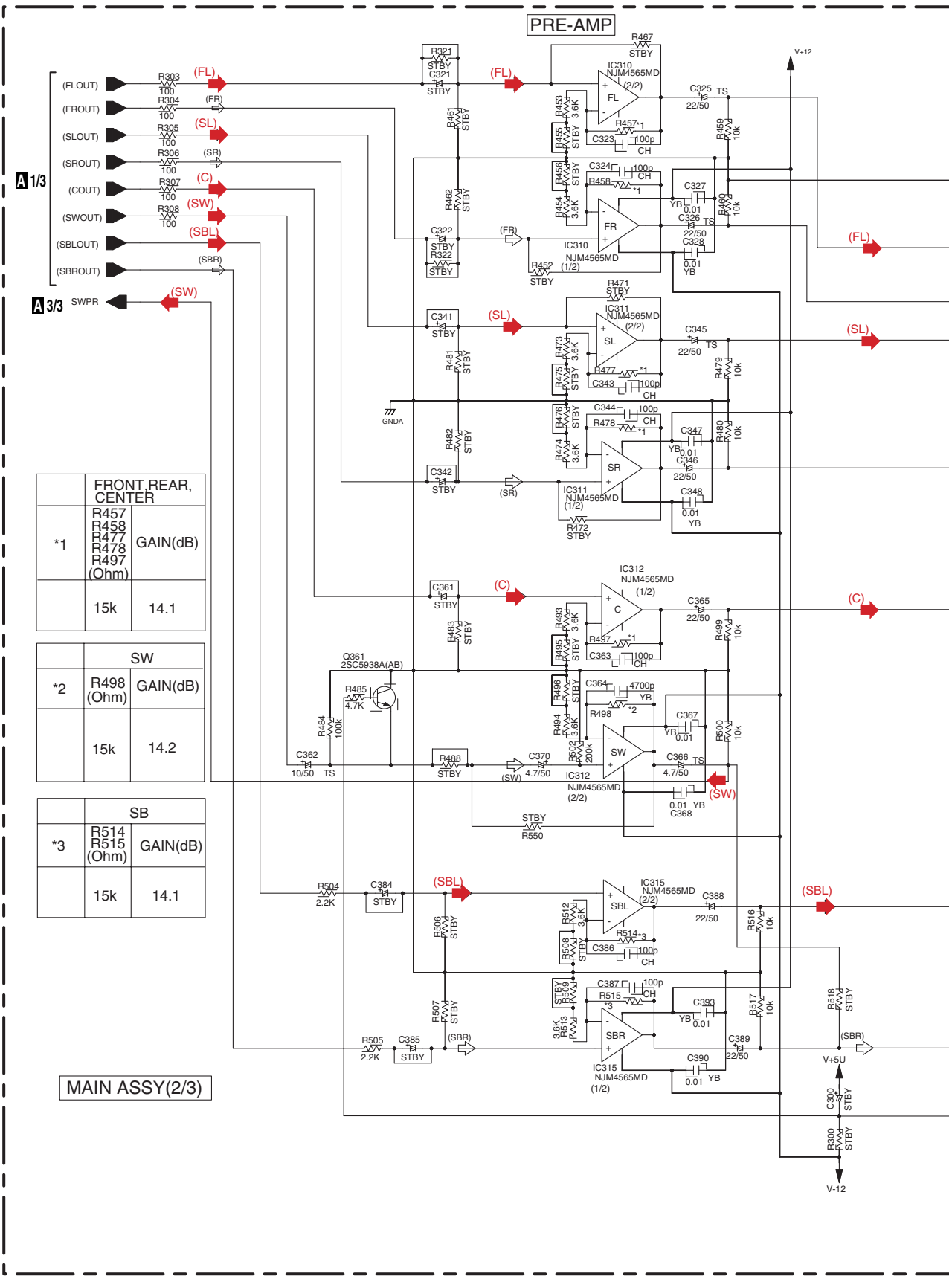
A 1/3 MAIN ASSY
(VSX-917V:XWK3307)
(VSX-817 : XWK3303)




Low Pass Filter
NOTES: NO INDICATED PARTS IS....
RESISTOR: RS1/16S***J-T, RS1/10S***J-T
CHEMICAL CAPACITOR: CEAT***M**-T,-TS
CERAMIC CAPACITOR: CCSRCH****50-T
CKSRYB****50-T
(SQ):CKSQ.CCSQ
( ) : AUDIO SIGNAL FLOW
For Wire Styling
IC103 (1/2) NJM4565MD
IC103 (2/2) NJM4565MD
IC104 (1/2) NJM4565MD
IC104 (2/2) NJM4565MD
IC105 (1/2) NJM4565MD
IC105 (2/2) NJM4565MD
IC106 (1/2) NJM4565MD
IC106 (2/2) NJM4565MD
IC107 (1/2) NJM4565MD
IC107 (2/2) NJM4565MD
IC110 TC4066BFN
LFE MIX
MAIN ASSY(1/3)
A 2/3
A 3/3
A 1/3
*1 Not used
(L) : Audio Signal Route (L ch)
(M) : Audio Signal Route (Mic ch)
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)
(SW) : Audio Signal Route (SubWoofer ch)

3.4 MAIN ASSY (2/3)

A 2/3 MAIN ASSY (VSX-917V:XWK3307) (VSX-817:XWK3303)

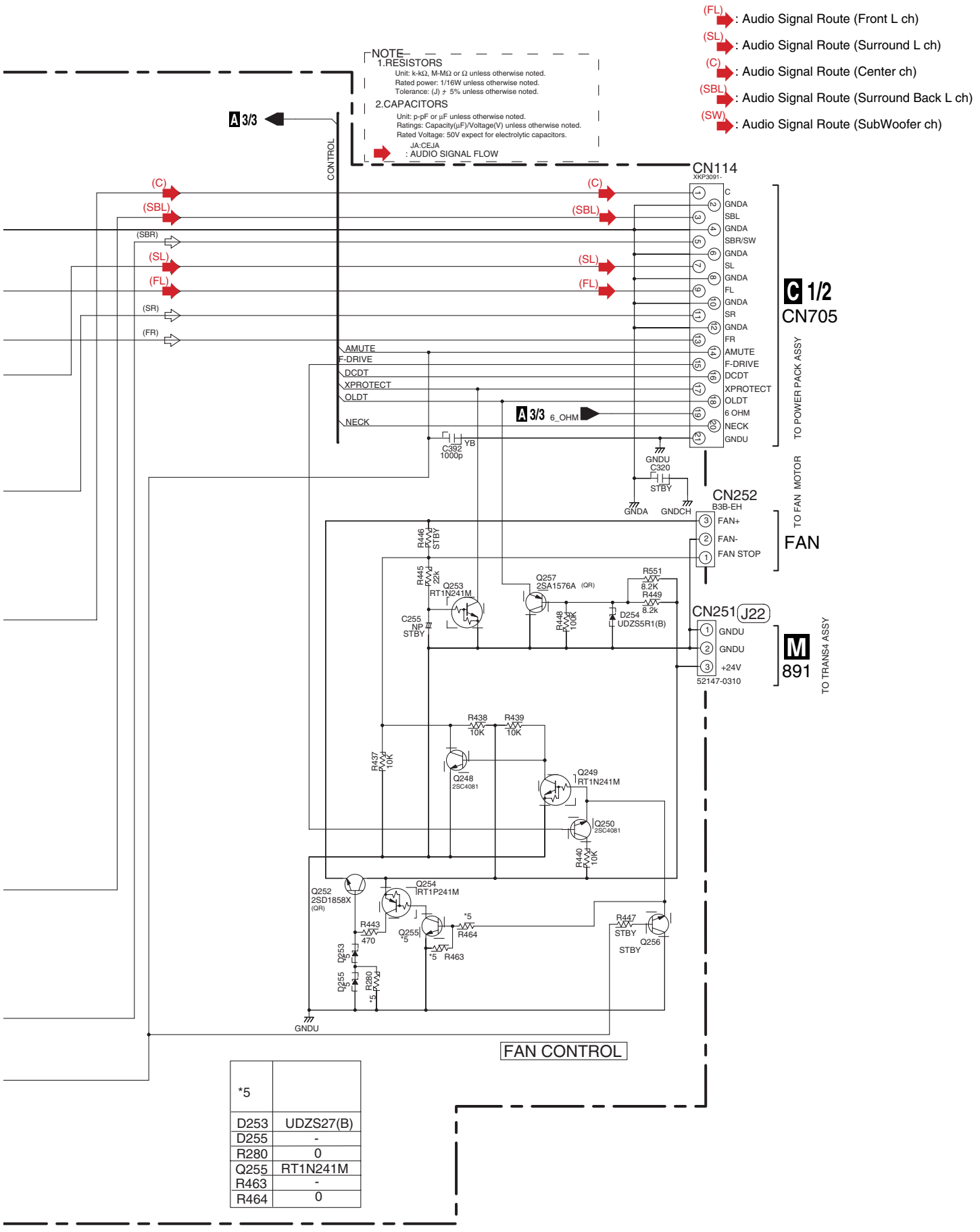


	FRONT,REAR, CENTER	
*1	R457 R458 R477 R478 R497 (Ohm)	GAIN(dB)
	15k	14.1

	SW	
*2	R498 (Ohm)	GAIN(dB)
	15k	14.2

	SB	
*3	R514 R515 (Ohm)	GAIN(dB)
	15k	14.1

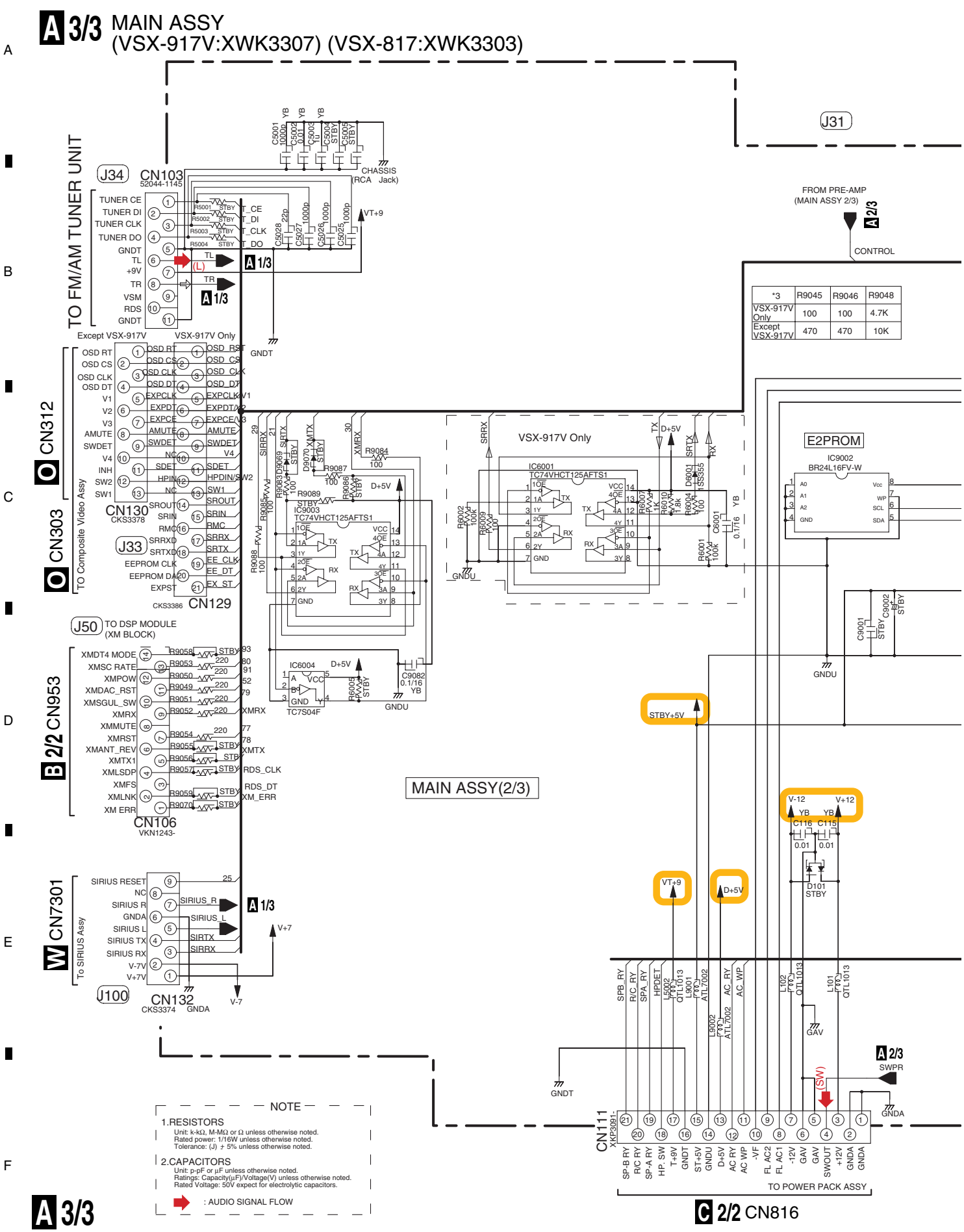
A 2/3



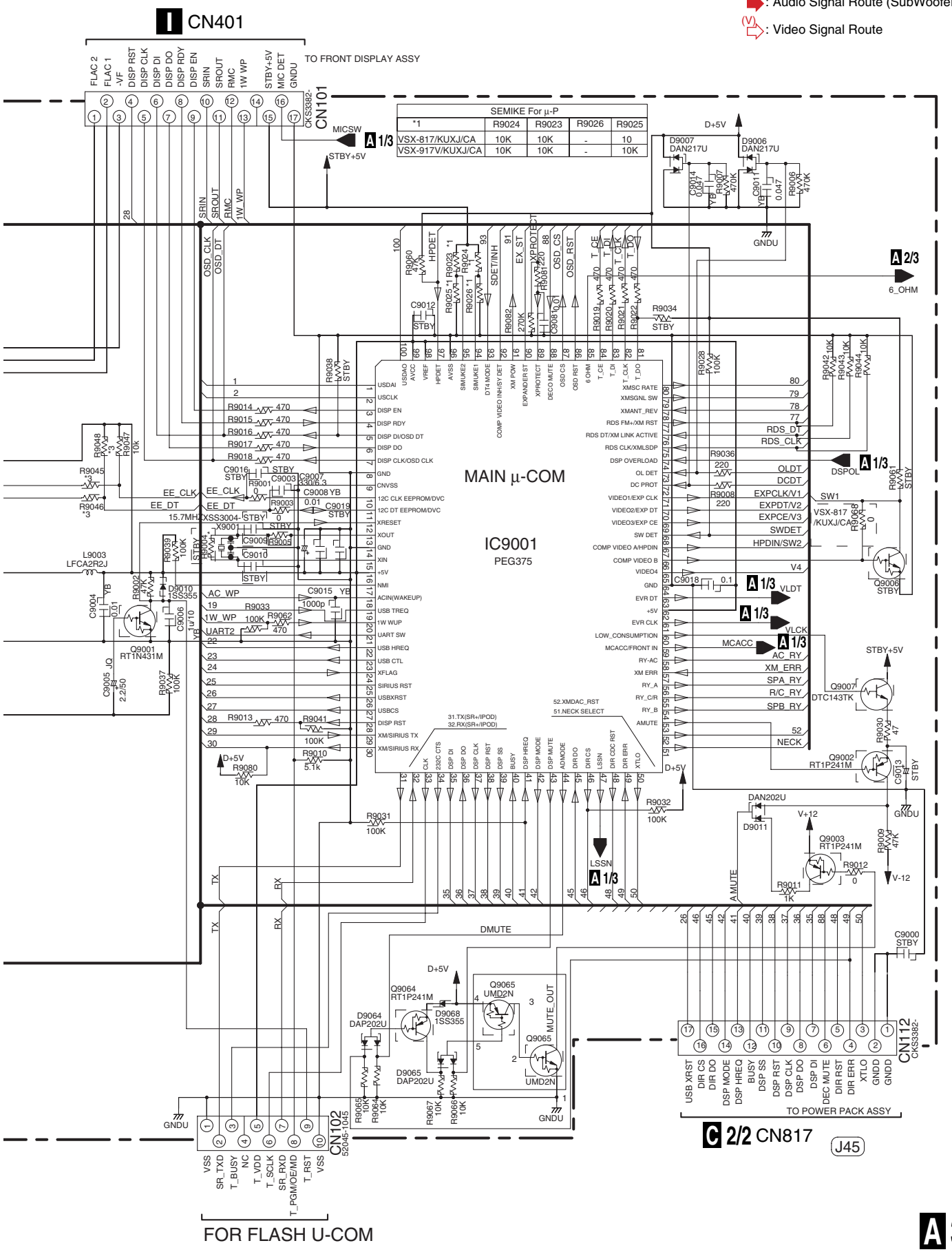
*5	
D253	UDZS27(B)
D255	-
R280	0
Q255	RT1N241M
R463	-
R464	0

A 2/3

3.5 MAIN ASSY (3/3)

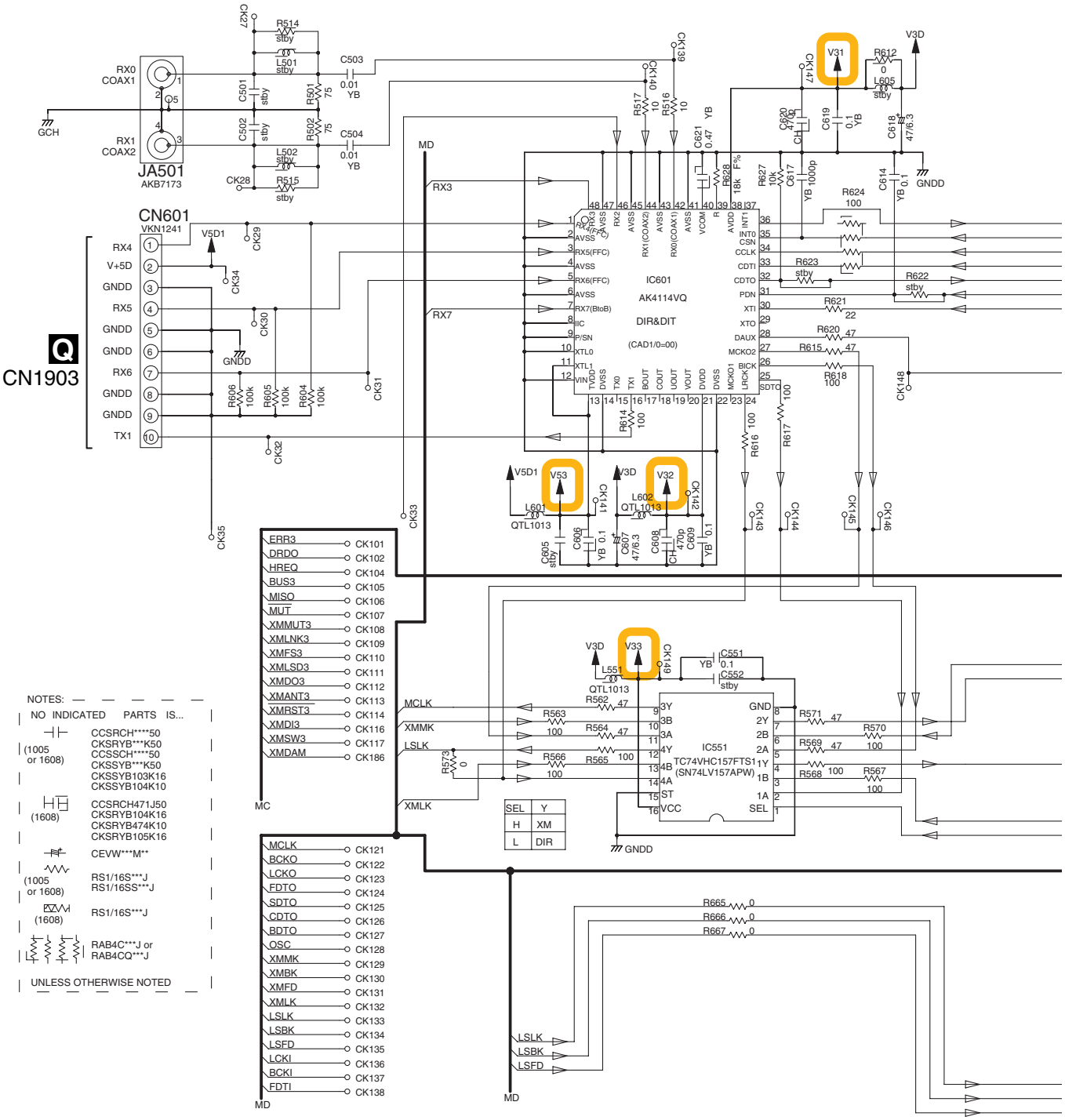


(L): Audio Signal Route (L ch)
(SW): Audio Signal Route (SubWoofer ch)
(V): Video Signal Route

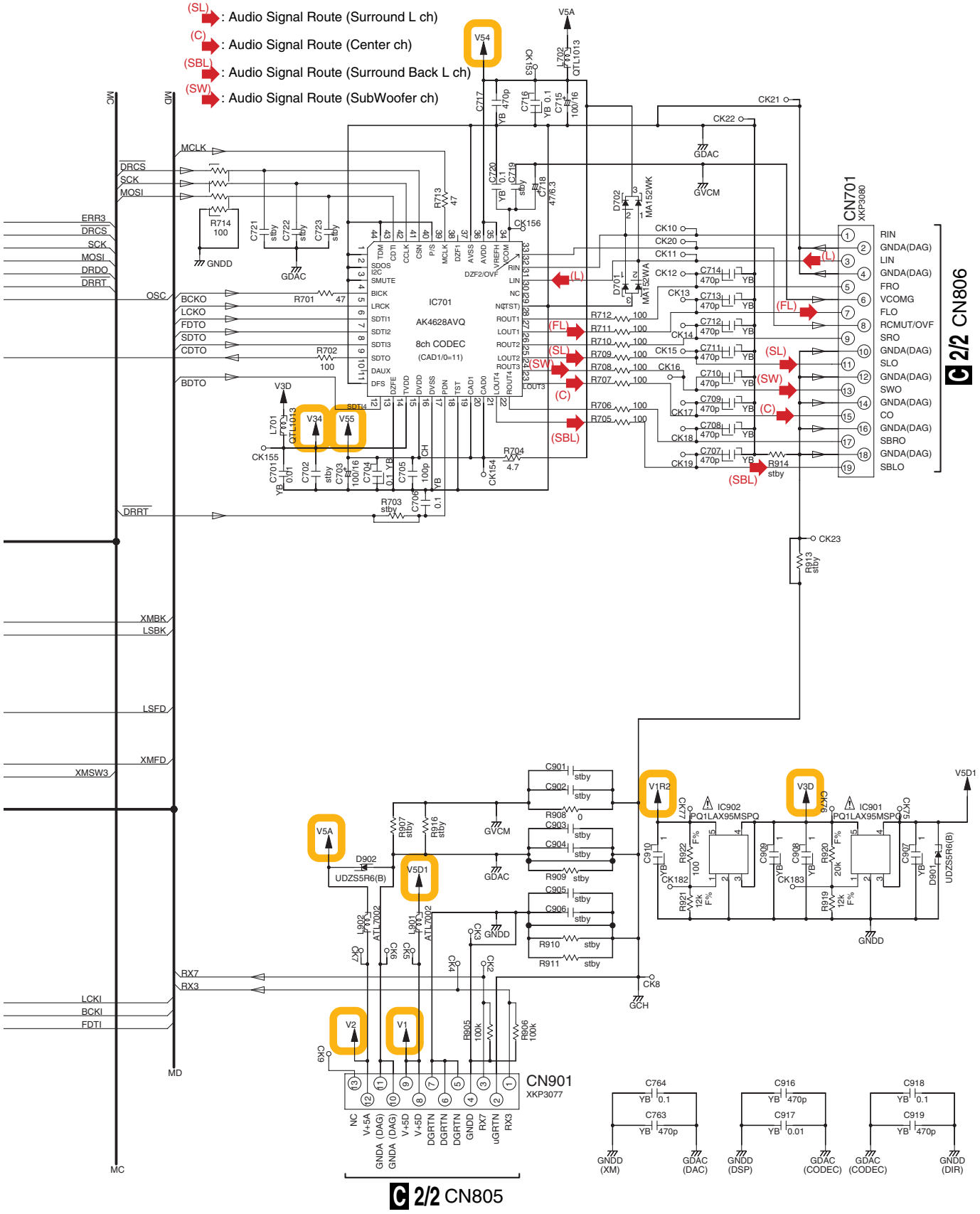


3.6 DSP ASSY (1/2)

B 1/2 DSP ASSY (AWX8809)



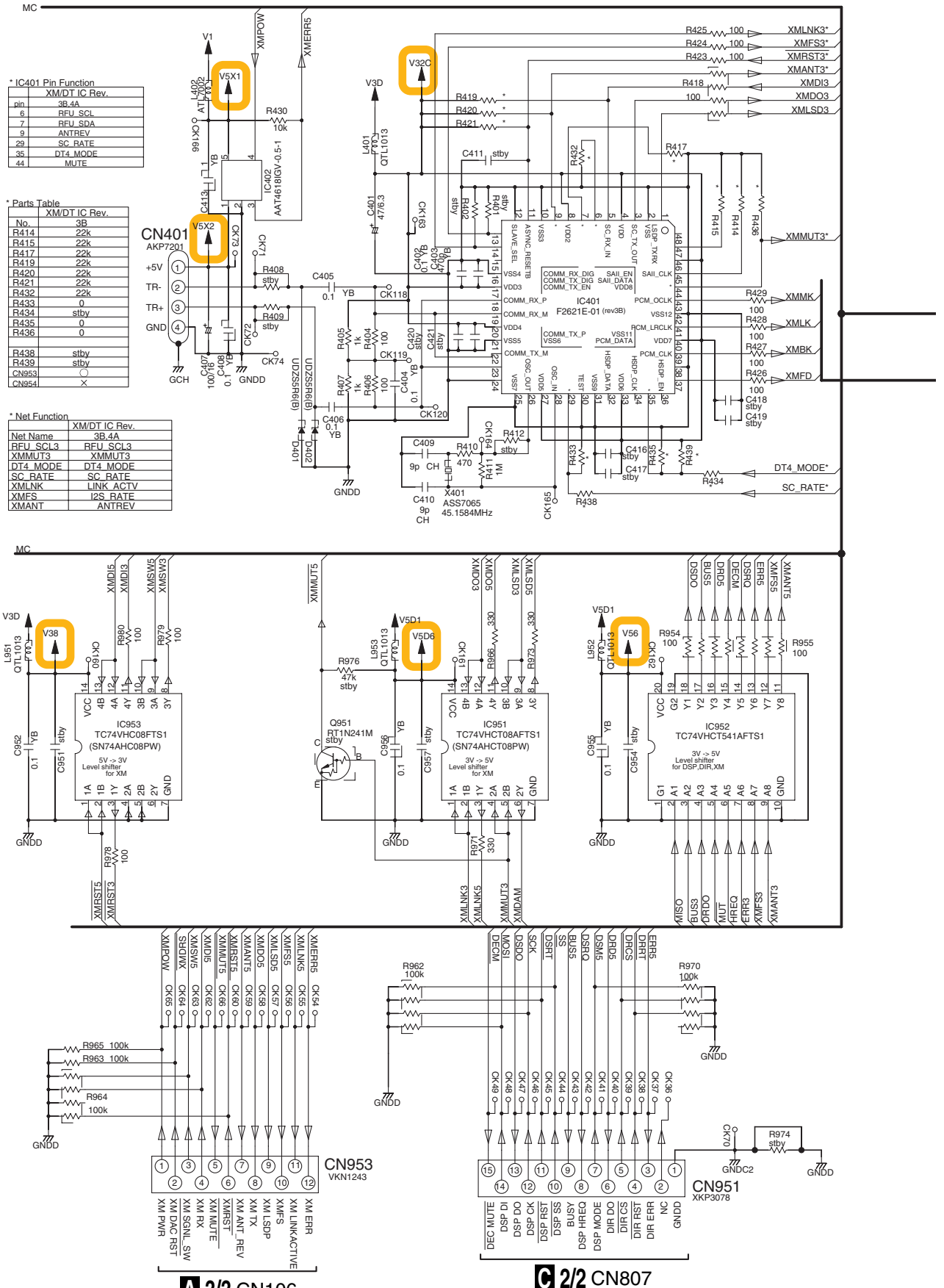
(L): Audio Signal Route (L ch)
(FL): Audio Signal Route (Front L ch)
(SL): Audio Signal Route (Surround L ch)
(C): Audio Signal Route (Center ch)
(SBL): Audio Signal Route (Surround Back L ch)
(SW): Audio Signal Route (SubWoofer ch)

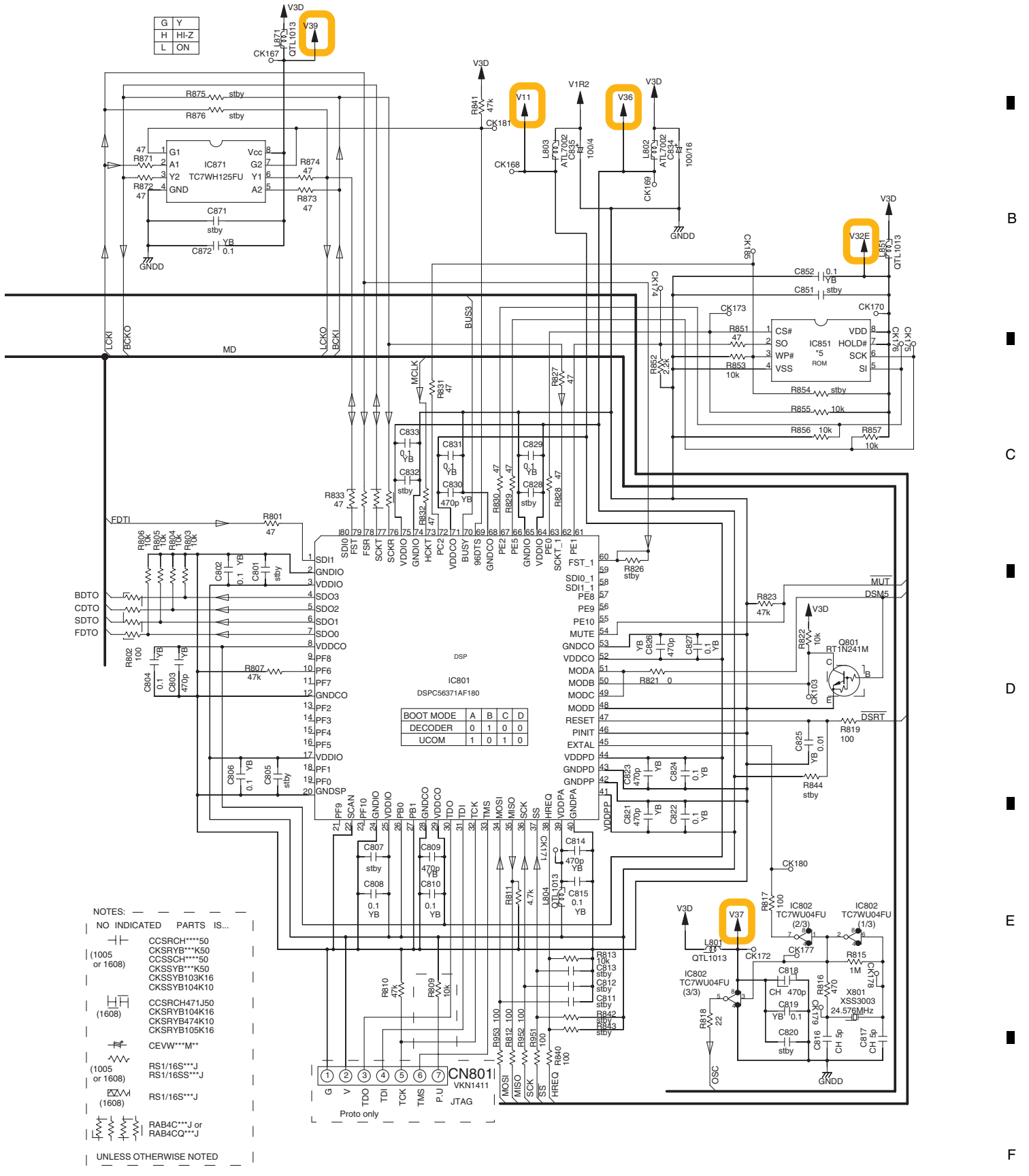


B 1/2

3.7 DSP ASSY (2/2)

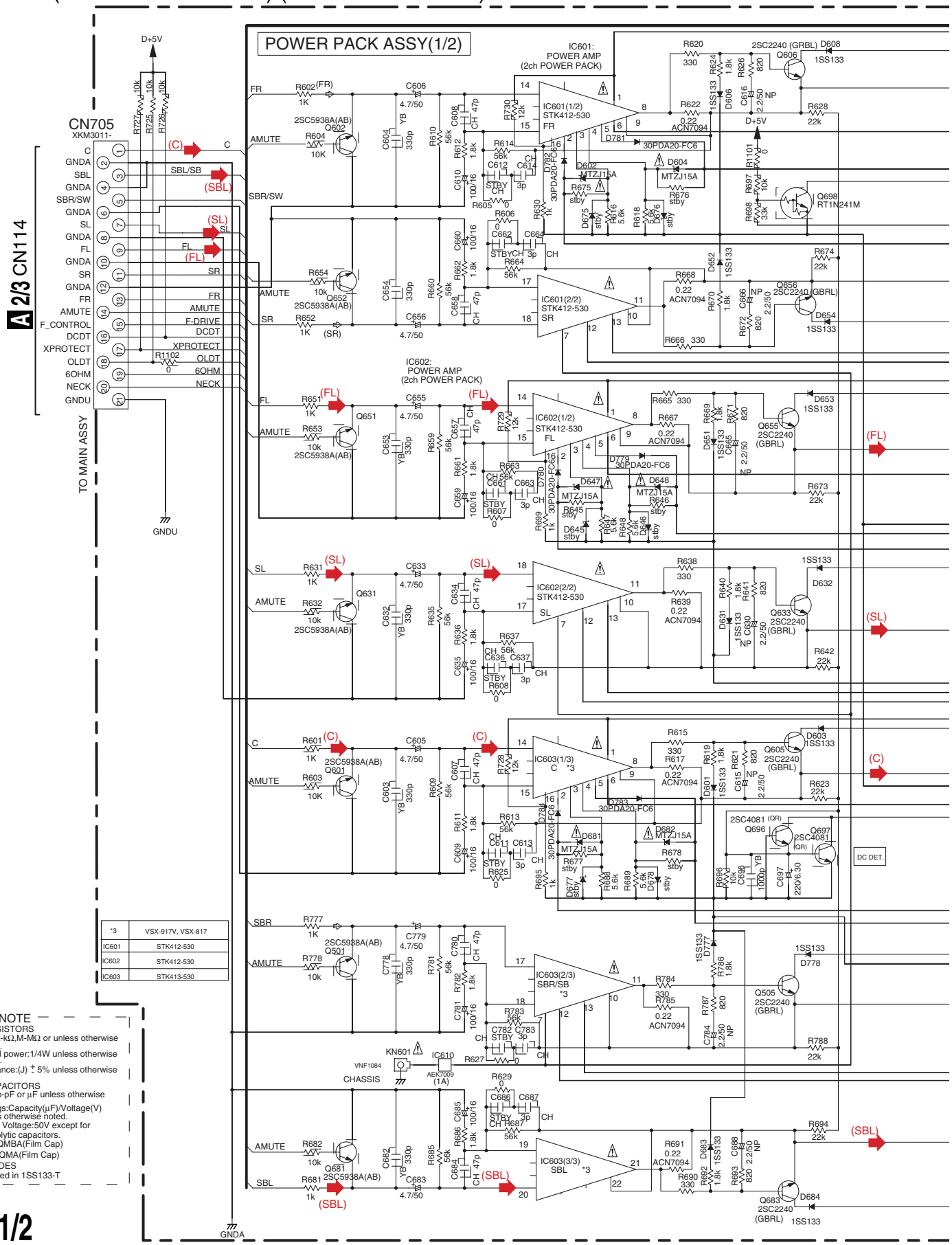
B 2/2 DSP ASSY (AWX8809)

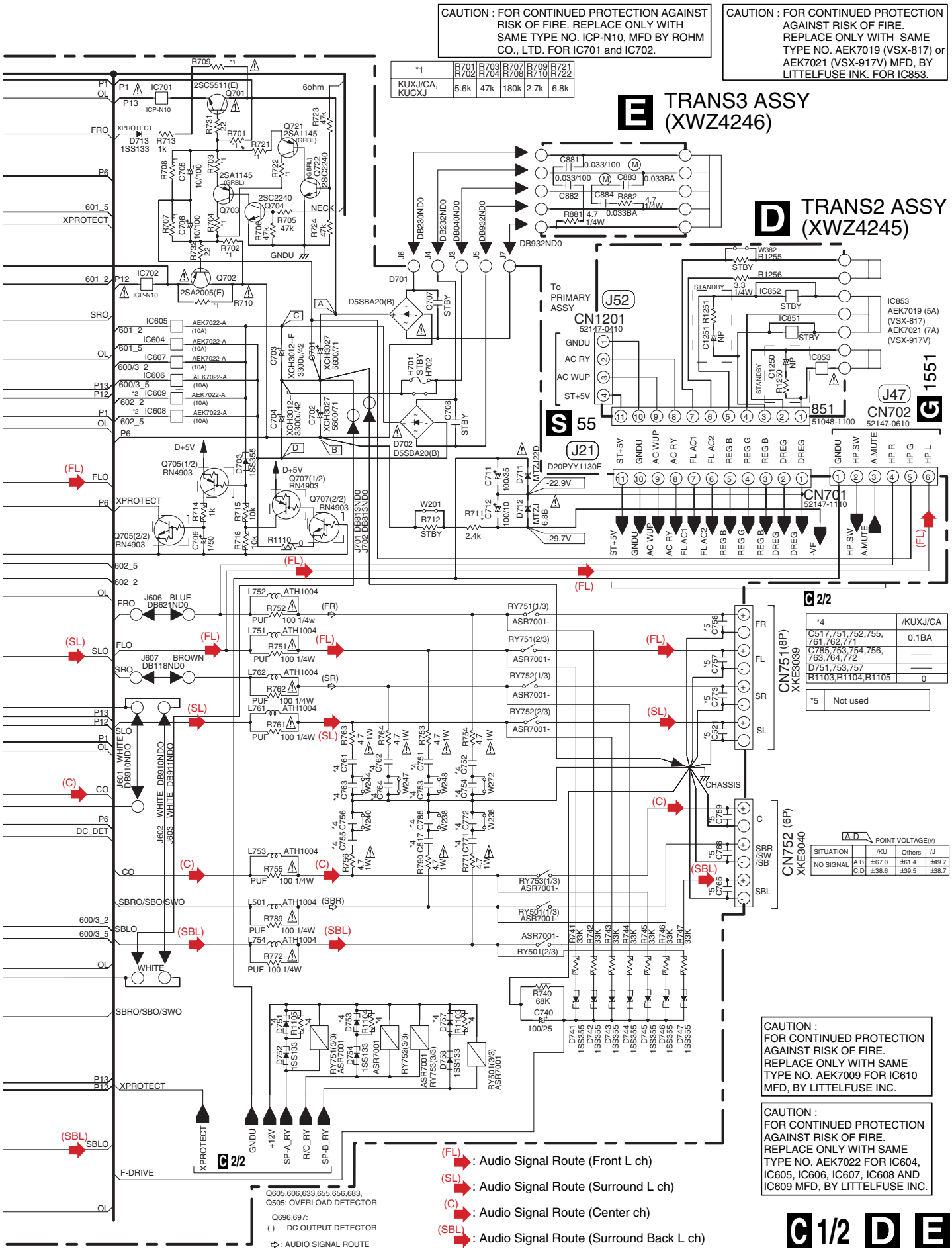



IC801
DSPC56371AF180
DSP
IC871
TC7WH125FU
IC851
ROM
CN801
VKN1411
JTAG
Proto only
IC802
TC7WU04FU
Q801
RT1N241M
X801
XSS3003
24.576MHz
V3D
GNDD
MD
LCKI
BCKO
LCKO
BCKI
FDTI
BDTO
CDTO
SDTO
FDTO
MUT
DSM5
DSRT
OSC
BOOT MODE A B C D
DECODER 0 1 0 0
UCOM 1 0 1 0
G Y
H HI-Z
L ON
NOTES:
NO INDICATED PARTS IS...
CCSRCH****50
CKSRYB***K50
CCSSCH****50
CKSSYB***K50
CKSSYB103K16
CKSSYB104K10
CCSRCH471J50
CKSRYB104K16
CKSRYB474K10
CKSRYB105K16
CEVW***M**
RS1/16S***J
RS1/16SS***J
RS1/16S***J
RAB4C***J or
RAB4CQ***J
UNLESS OTHERWISE NOTED

B 2/2

C 1/2 POWER PACK ASSY (VSX-917V:XWZ4239) (VSX-817:XWZ4235)




CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N10, MFD BY ROHM CO., LTD. FOR IC701 and IC702.
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7019 (VSX-817) or AEK7021 (VSX-917V) MFD, BY LITTELFUSE INK. FOR IC853.
E TRANS3 ASSY (XWZ4246)
D TRANS2 ASSY (XWZ4245)
G 1551
S 55
C 1/2
C 2/2
CN751 (8P) XKE3039
CN752 (6P) XKE3040
CN701 52147-1110
CN702 52147-0610
CN1201 52147-0410
J21
J47
J52
851 51048-1100
IC701 ICP-N10
IC702 ICP-N10
IC605 AEK7022-A (10A)
IC604 AEK7022-A (10A)
IC607 AEK7022-A (10A)
IC606 AEK7022-A (10A)
IC609 AEK7022-A (10A)
IC608 AEK7022-A (10A)
IC852
IC851
IC853
IC853 AEK7019 (5A) (VSX-817) AEK7021 (7A) (VSX-917V)
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7009 FOR IC610 MFD, BY LITTELFUSE INC.
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7022 FOR IC604, IC605, IC606, IC607, IC608 AND IC609 MFD, BY LITTELFUSE INC.
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)
Q605,606,633,655,656,683, Q505: OVERLOAD DETECTOR
Q696,697: ( ) DC OUTPUT DETECTOR
: AUDIO SIGNAL ROUTE
C 1/2 D E

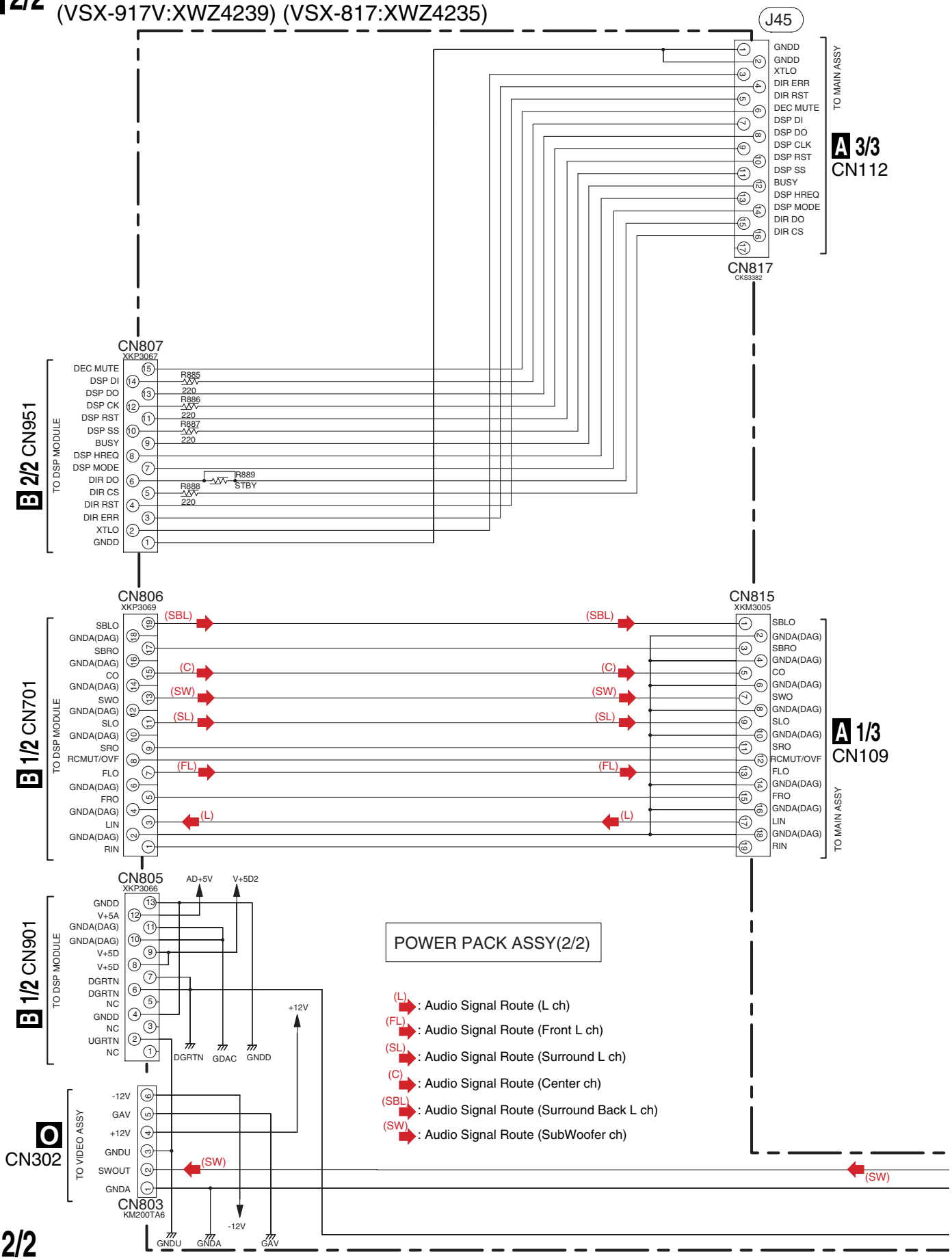
*1	R701 R702	R703 R704	R707 R708	R709 R710	R721 R722
KUXJ/CA, KUCXJ	5.6k	47k	180k	2.7k	6.8k

*4	/KUXJ/CA
C517,751,752,755, 761,762,771	0.1BA
C785,753,754,756, 763,764,772	——
D751,753,757	——
R1103,R1104,R1105	0

*5 Not used

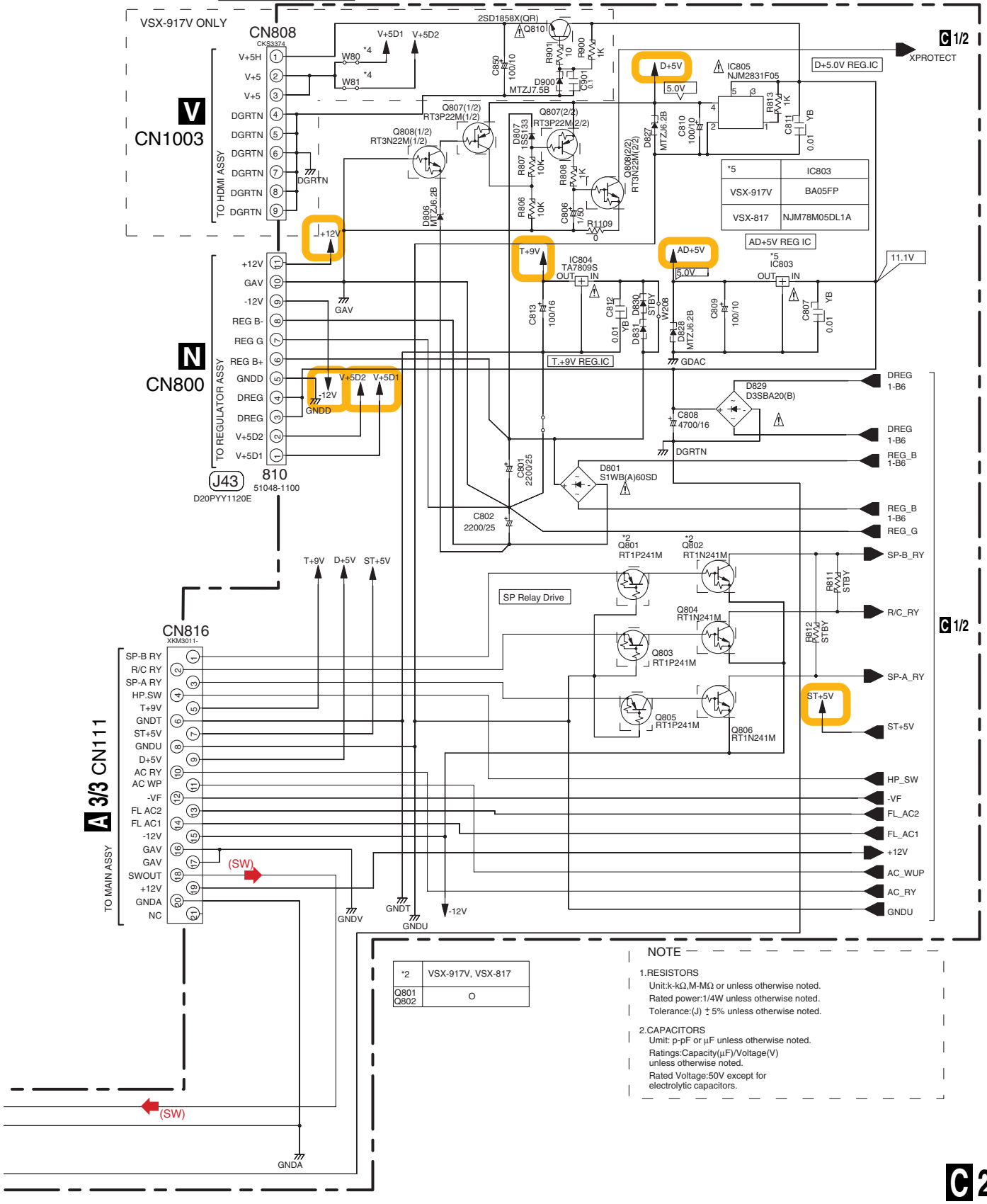
A-D POINT VOLTAGE(V)				
SITUATION		/KU	Others	/J
NO SIGNAL	A,B	±67.0	±61.4	±49.7
	C,D	±38.6	±39.5	±38.7

C 2/2 POWER PACK ASSY (VSX-917V:XWZ4239) (VSX-817:XWZ4235)



C 2/2

*4	VSX-917V /KUXJ/CA	VSX-817 /KUXJ/CA
W80	O	X
W81	X	X



*2	VSX-917V, VSX-817
Q801 Q802	O

NOTE

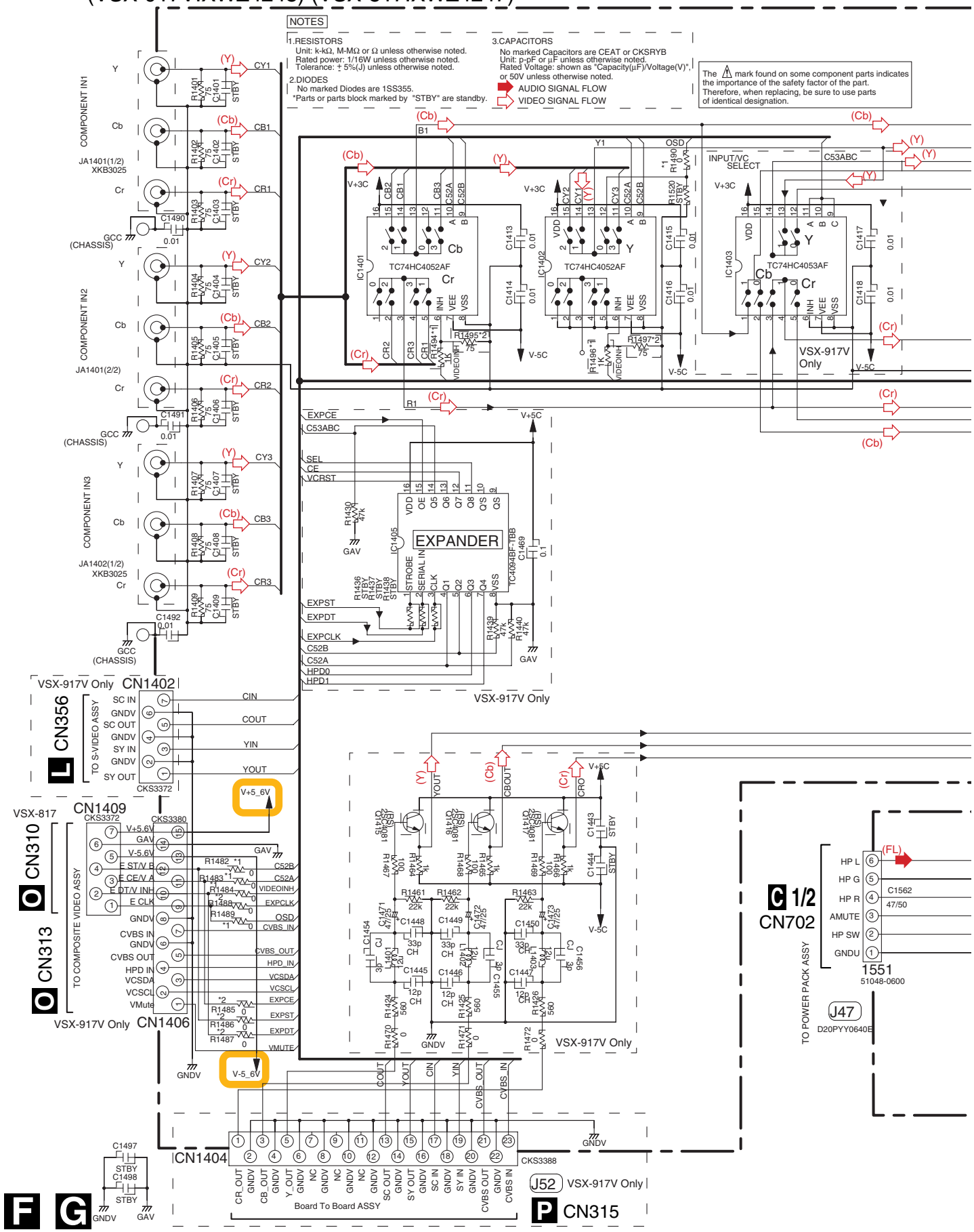
1.RESISTORS
Unit:k-kΩ,M-MΩ or unless otherwise noted.
Rated power:1/4W unless otherwise noted.
Tolerance:(J) ∓ 5% unless otherwise noted.

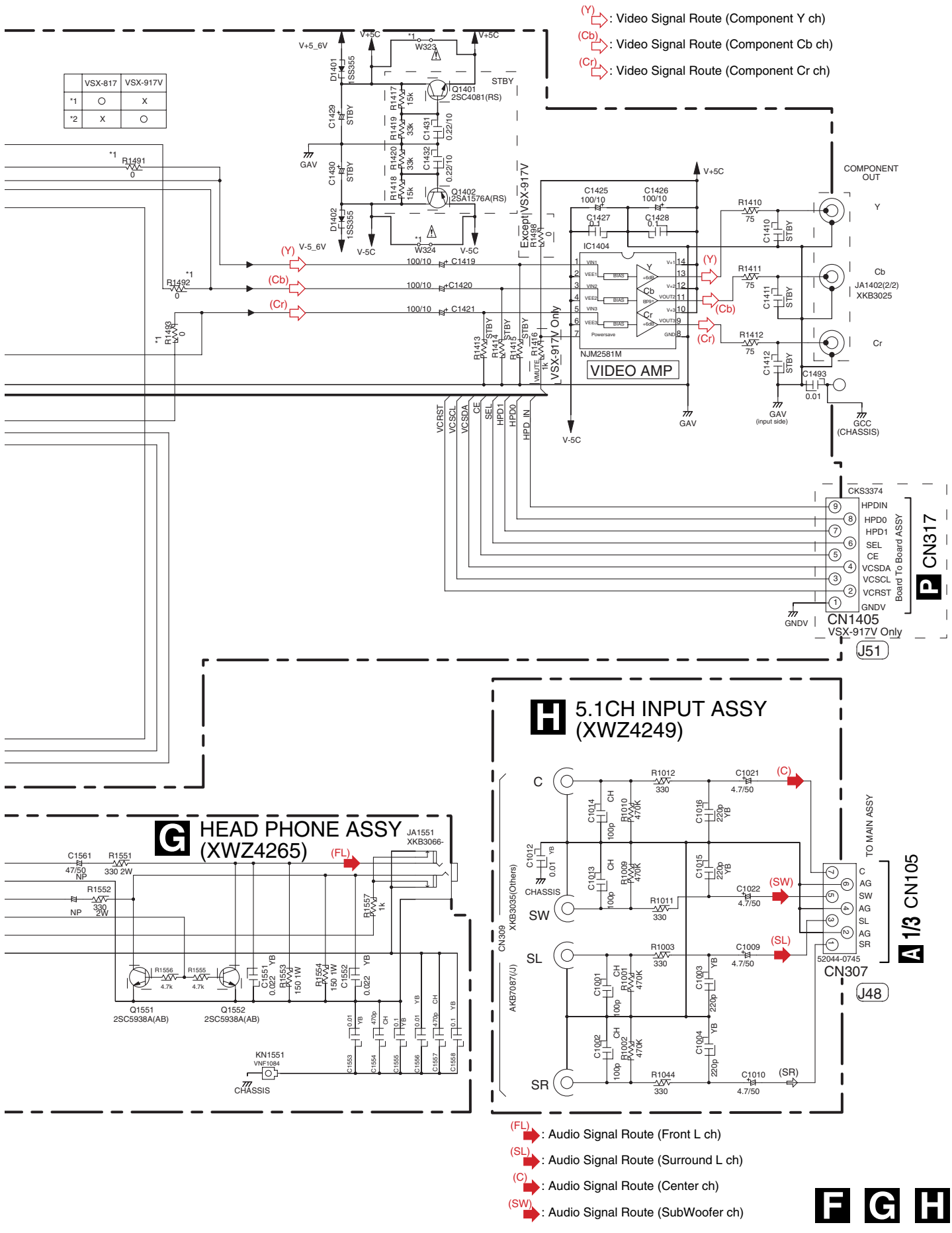
2.CAPACITORS
Umit: p-pF or µF unless otherwise noted.
Ratings:Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage:50V except for electrolytic capacitors.

C 2/2

3.10 COMPONENT VIDEO, HEAD PHONE and 5.1CH INPUT ASSYS

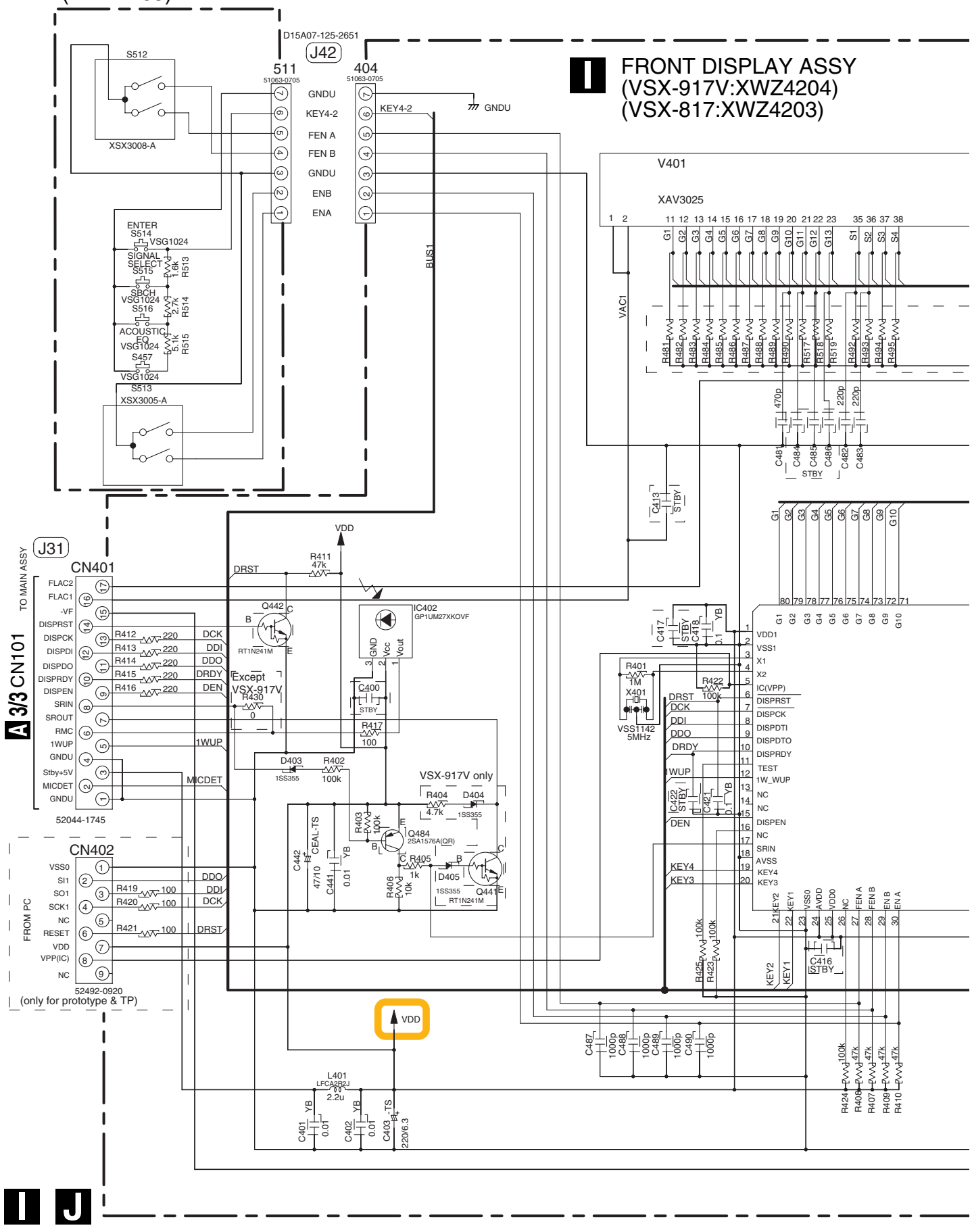
F COMPONENT VIDEO ASSY (VSX-917V:XWZ4248) (VSX-817:XWZ4247)

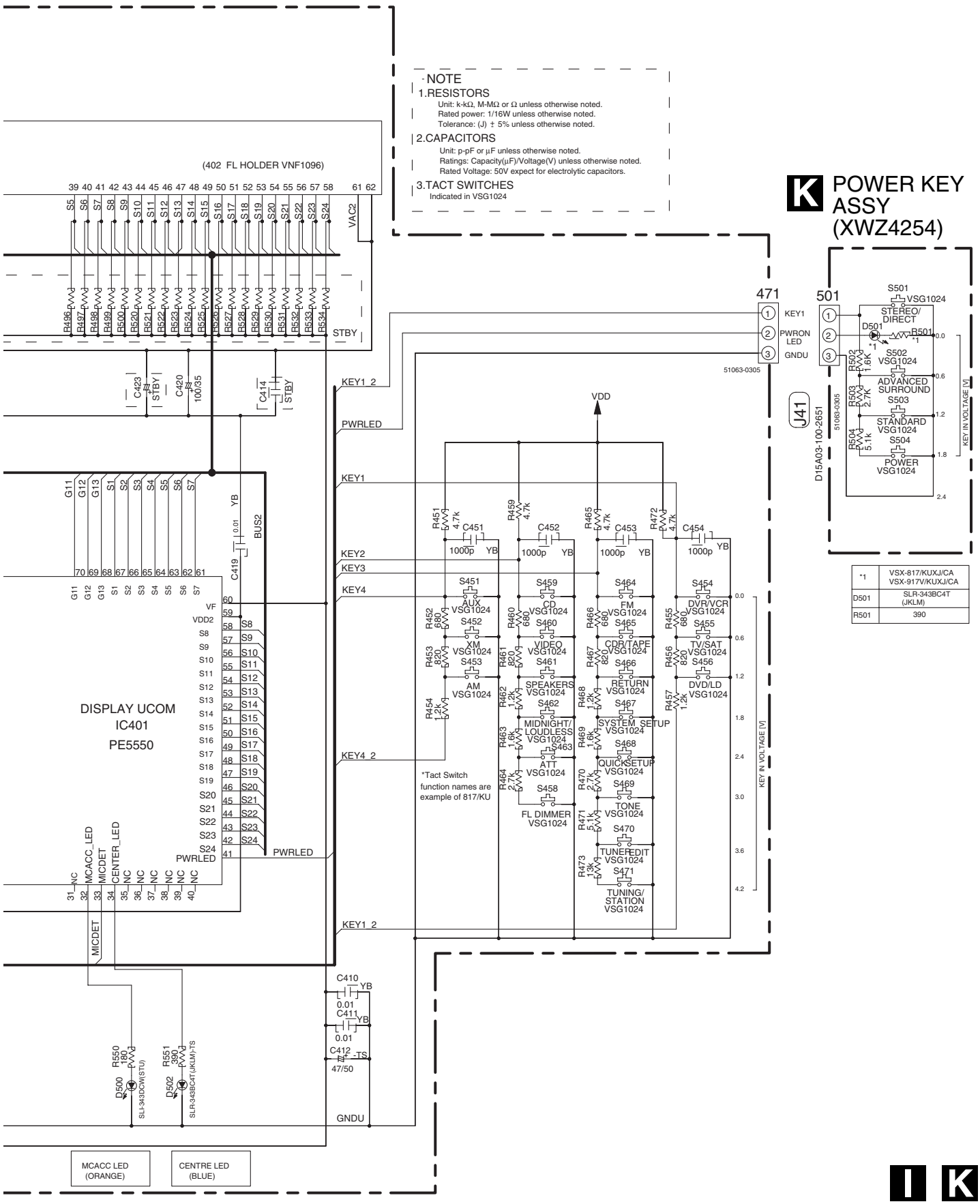



(Y): Video Signal Route (Component Y ch)
(Cb): Video Signal Route (Component Cb ch)
(Cr): Video Signal Route (Component Cr ch)
VSX-817 VSX-917V
*1 ○ X
*2 X ○
VIDEO AMP
NJM2581M
IC1404
COMPONENT OUT
Y
Cb
Cr
JA1402(2/2) XKB3025
VSX-917V Only
CN1405
CN317
Board To Board ASSY
J51
G HEAD PHONE ASSY (XWZ4265)
JA1551 XKB3066-
Q1551 2SC5938A(AB)
Q1552 2SC5938A(AB)
KN1551 VNF1084
H 5.1CH INPUT ASSY (XWZ4249)
CN309 XKB3035(Others) AKB7087(J)
TO MAIN ASSY
CN307
A 1/3 CN105
J48
(FL): Audio Signal Route (Front L ch)
(SL): Audio Signal Route (Surround L ch)
(C): Audio Signal Route (Center ch)
(SW): Audio Signal Route (SubWoofer ch)
F G H

3.11 FRONT DISPLAY, ROTARY ENCODER and POWER KEY ASSYS

J ROTARY ENCODER ASSY (XWZ4205)




NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ± 5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.
3.TACT SWITCHES
Indicated in VSG1024
(402 FL HOLDER VNF1096)
POWER KEY ASSY (XWZ4254)
471
501
J41
D15A03-100-2651
51063-0305
KEY1
PWRON LED
GNDU
STEREO/ DIRECT
ADVANCED SURROUND
STANDARD
POWER
KEY IN VOLTAGE [V]
VDD
KEY1
KEY2
KEY3
KEY4
KEY1_2
KEY4_2
PWRLED
STBY
VAC2
BUS2
DISPLAY UCOM
IC401
PE5550
AUX
CD
FM
DVR/VCR
XM
VIDEO
CDR/TAPE
TV/SAT
AM
SPEAKERS
RETURN
DVD/LD
MIDNIGHT/ LOUDLESS
SYSTEM SETUP
ATT
QUICKSETUP
FL DIMMER
TONE
TUNER EDIT
TUNING/ STATION
*Tact Switch function names are example of 817/KU
MCACC_LED
CENTER_LED
MICDET
D500 SLI-343DCW(STU)
D502 SLR-343BC4T(JKLM)-TS
MCACC LED (ORANGE)
CENTRE LED (BLUE)
*1 VSX-817/KUXJ/CA VSX-917V/KUXJ/CA
D501 SLR-343BC4T (JKLM)
R501 390

3.12 S.VIDEO, TRANS4 and REGULATOR ASSYS

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7008 MFD, BY LITTELFUSE INK. FOR IC357.

NOTE

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ± 5% unless otherwise noted.

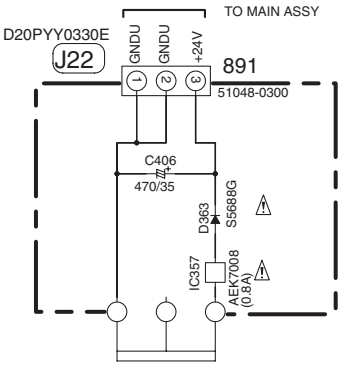
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.

(Y): Y SIGNAL ROUTE (S-VIDEO)

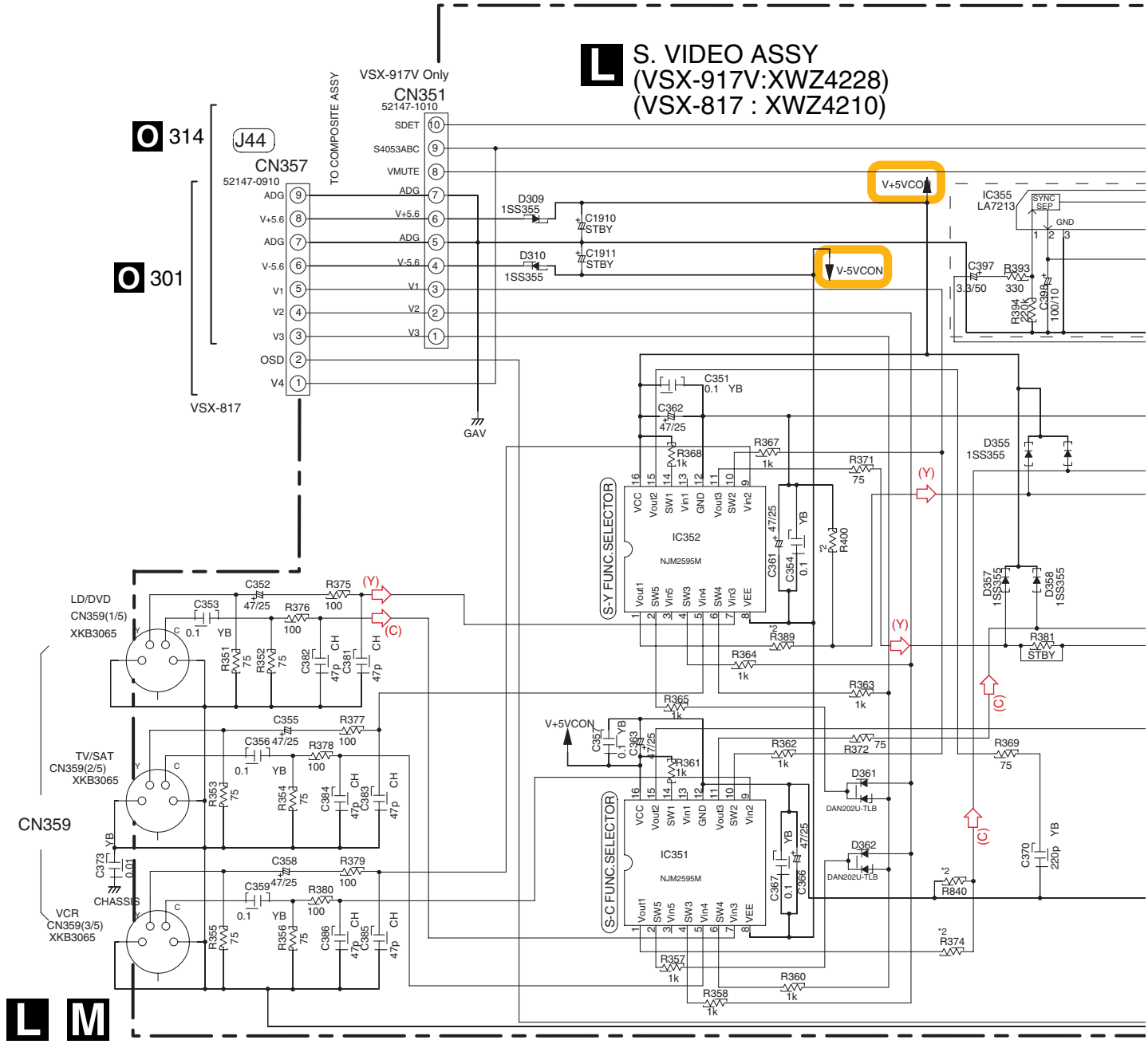
(C): C SIGNAL ROUTE (S-VIDEO)

M TRANS4 ASSY (XWZ4225)

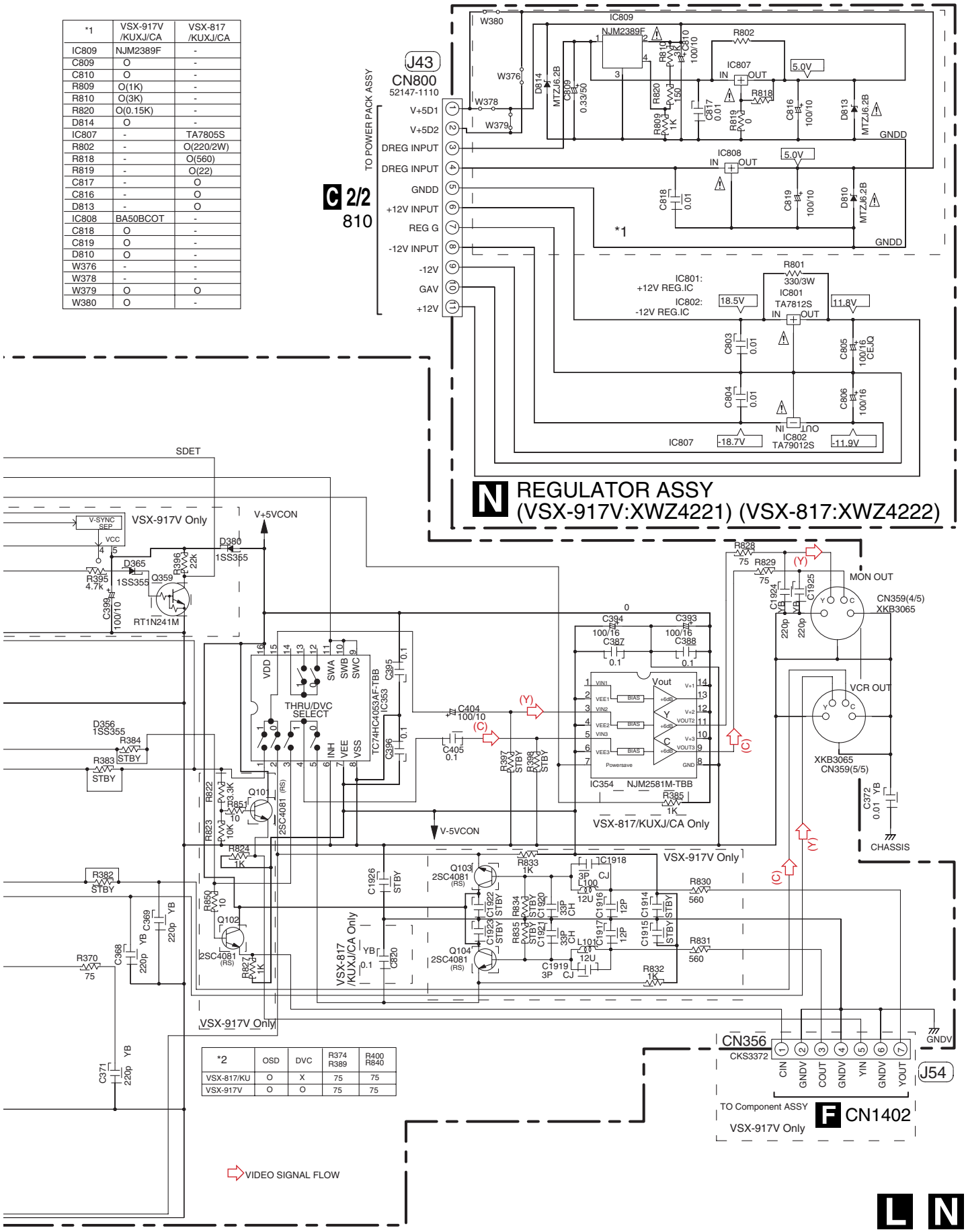
A 2/3 CN251



L S. VIDEO ASSY (VSX-917V:XWZ4228) (VSX-817 : XWZ4210)



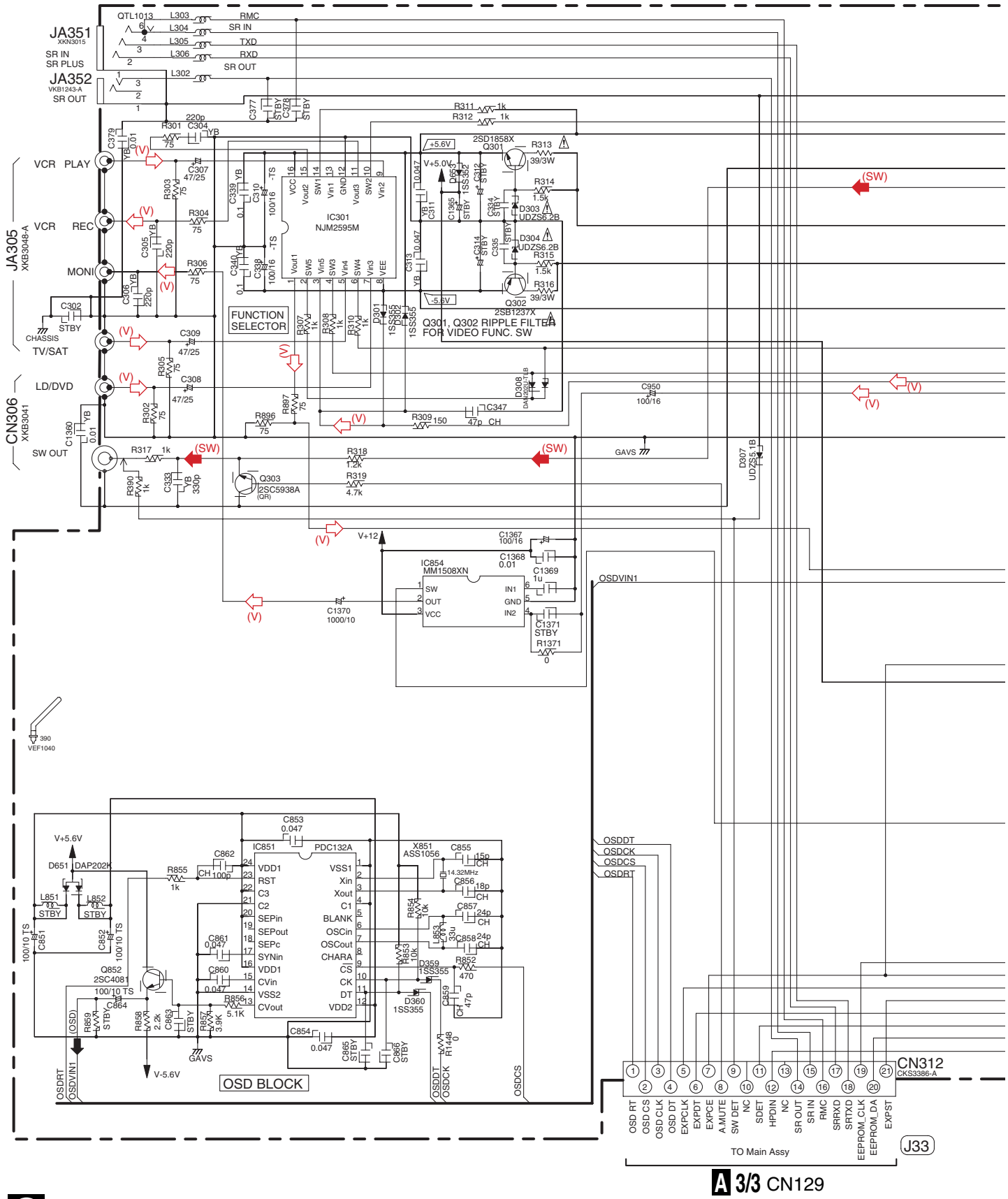
*1	VSX-917V /KUXJ/CA	VSX-817 /KUXJ/CA
IC809	NJM2389F	-
C809	O	-
C810	O	-
R809	O(1K)	-
R810	O(3K)	-
R820	O(0.15K)	-
D814	O	-
IC807	-	TA7805S
R802	-	O(220/2W)
R818	-	O(560)
R819	-	O(22)
C817	-	O
C816	-	O
D813	-	O
IC808	BA50BCOT	-
C818	O	-
C819	O	-
D810	O	-
W376	-	-
W378	-	-
W379	O	O
W380	O	-



L N

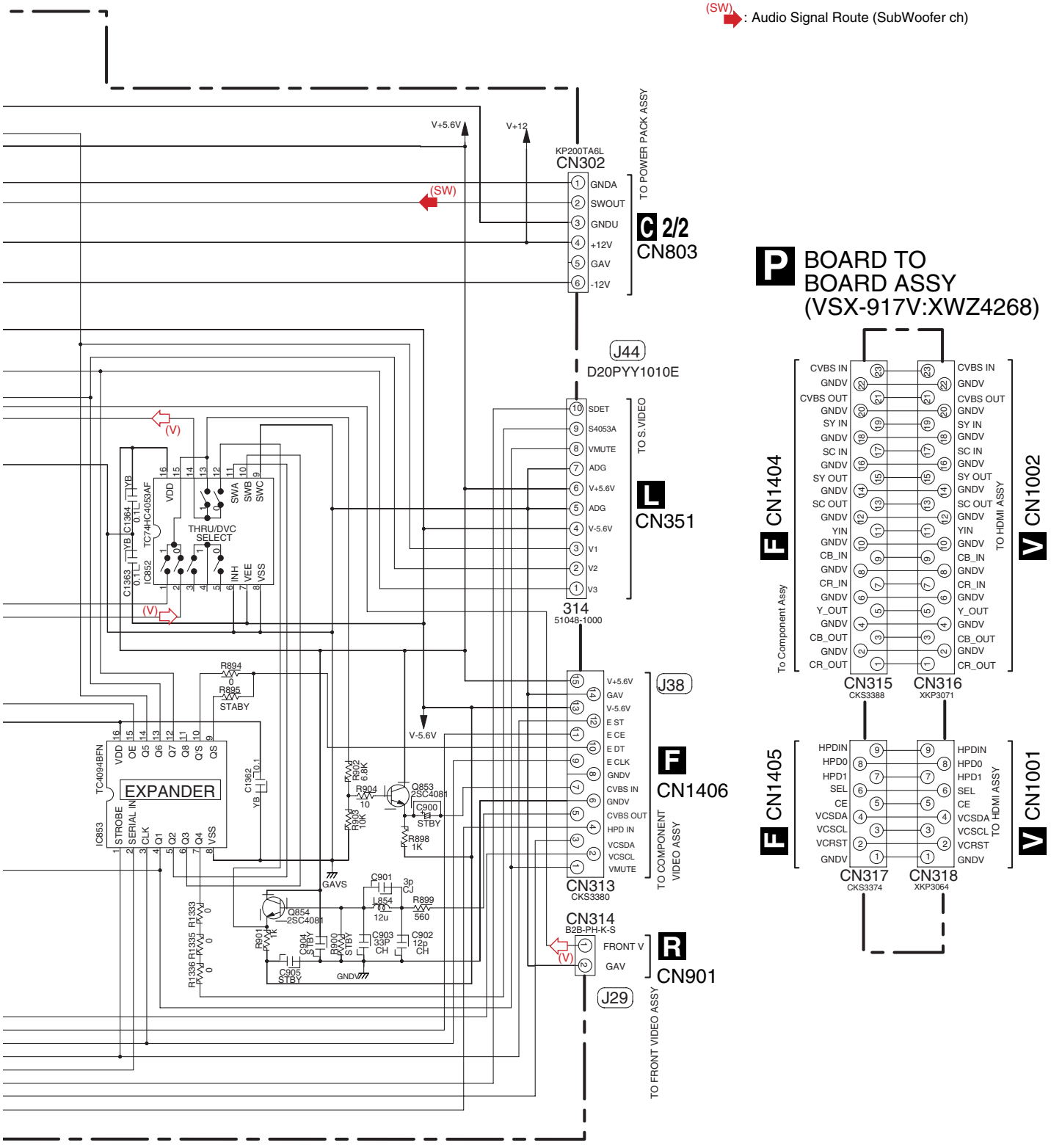
3.13 COMP VIDEO and BOARD TO BOARD ASSYS

COMP VIDEO ASSY (VSX-917V:XWZ4267)



(V): Video Signal Route

(SW): Audio Signal Route (SubWoofer ch)



P BOARD TO BOARD ASSY (VSX-917V:XWZ4268)

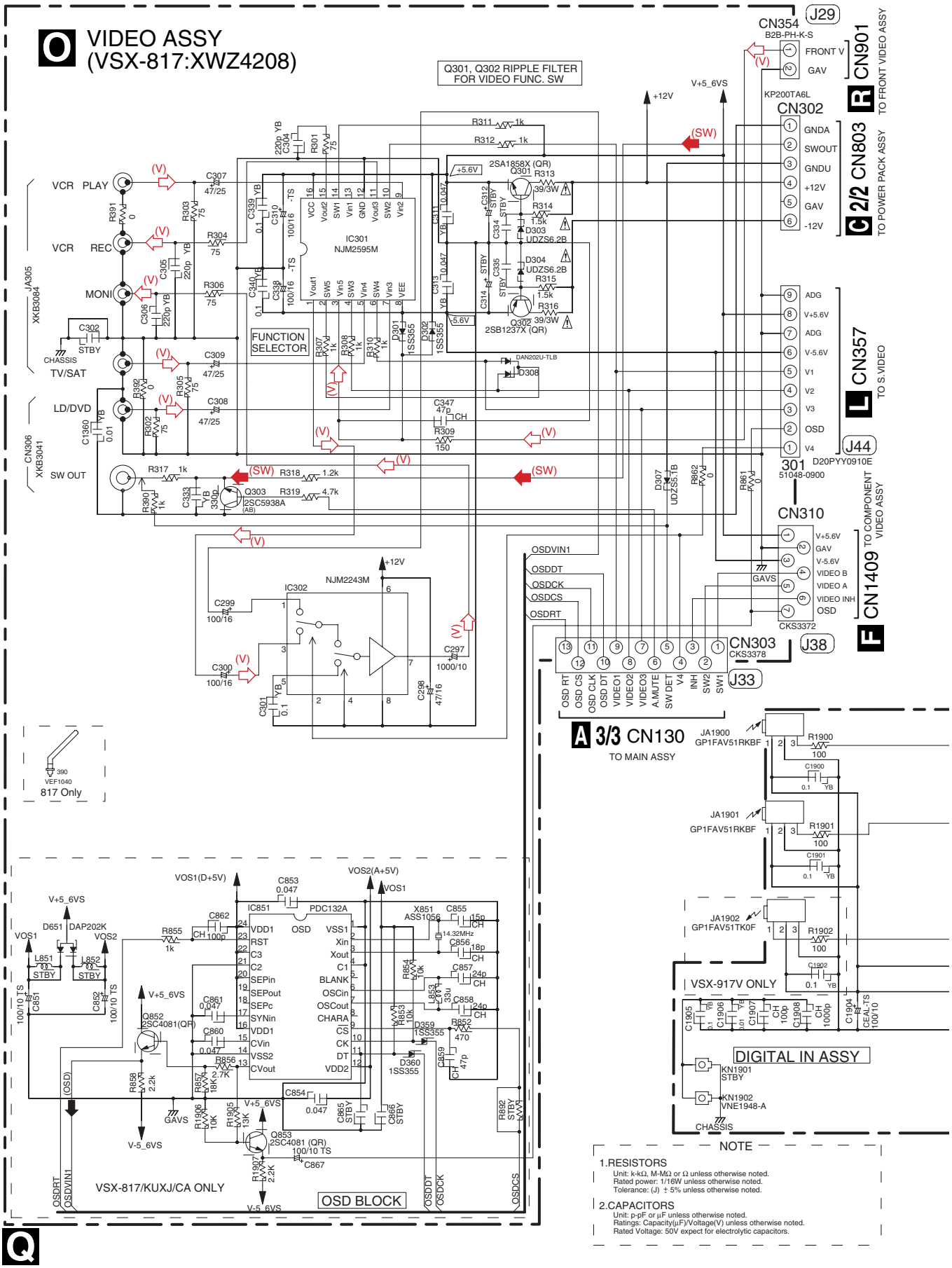
NOTE

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ± 5% unless otherwise noted.

2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.

O P

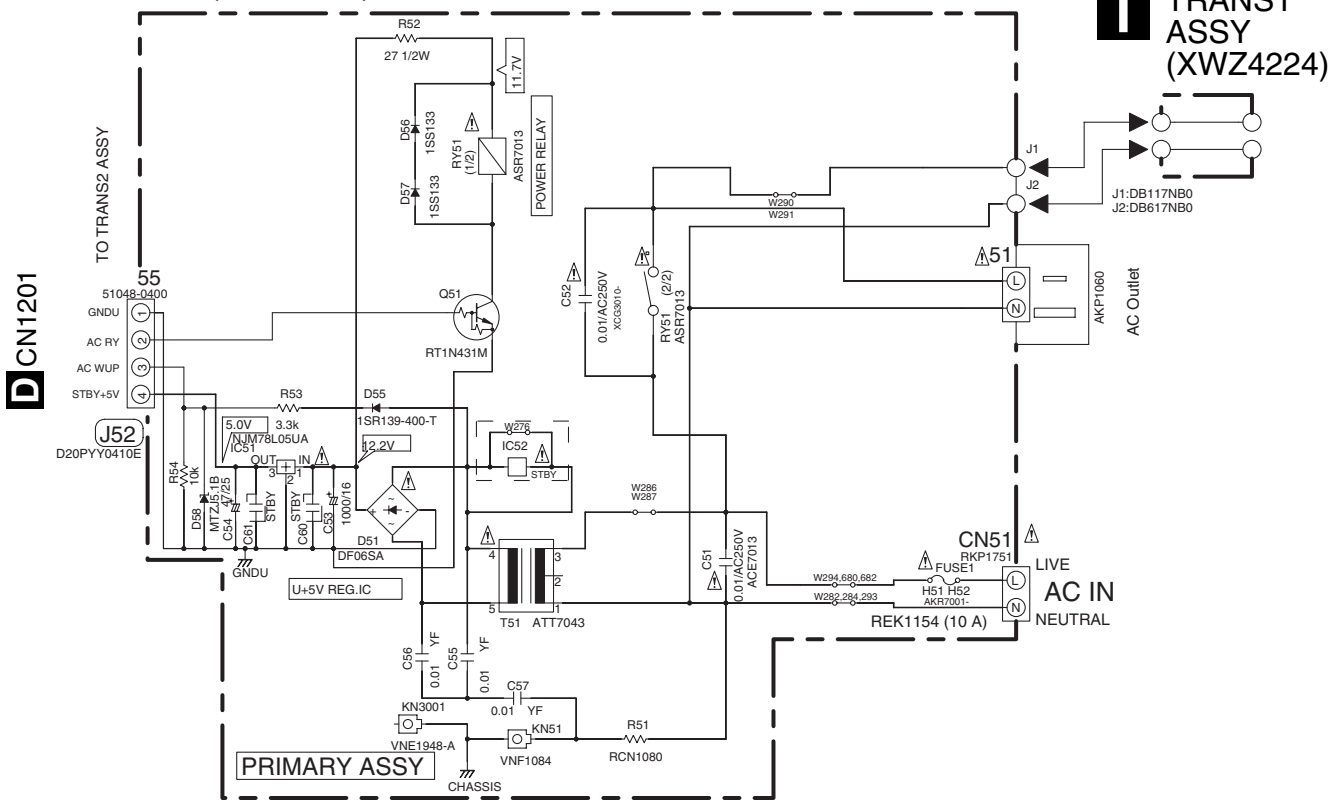
3.14 VIDEO, DIGITAL INPUT, FRONT VIDEO, PRIMARY and TRANS1 ASSYS



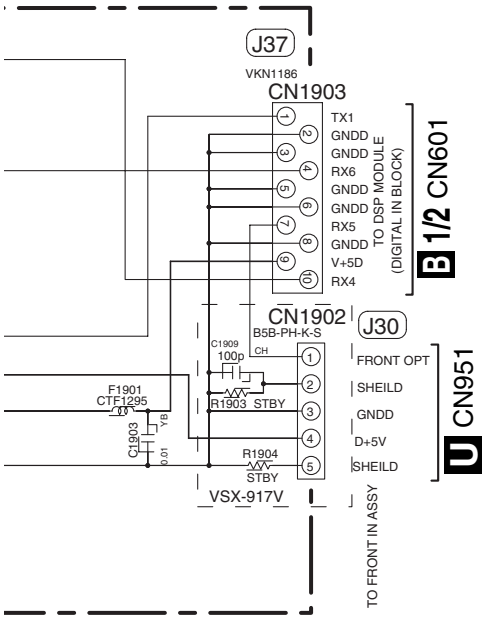
O Q

A

S PRIMARY ASSY (XWZ4218)



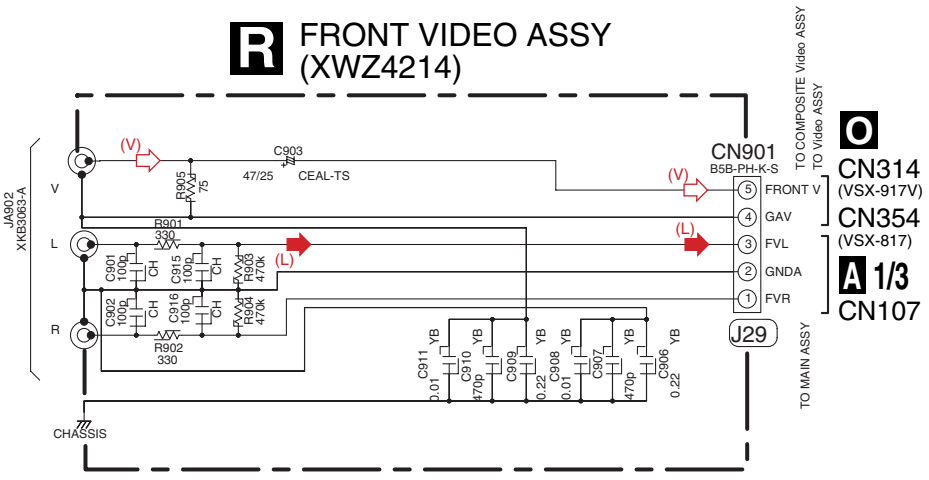
B



• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

R FRONT VIDEO ASSY (XWZ4214)



Q DIGITAL INPUT ASSY (VSX-917V:XWZ4213) (VSX-817:XWZ4212)

(V): Video Signal Route

(L): Audio Signal Route (L ch)

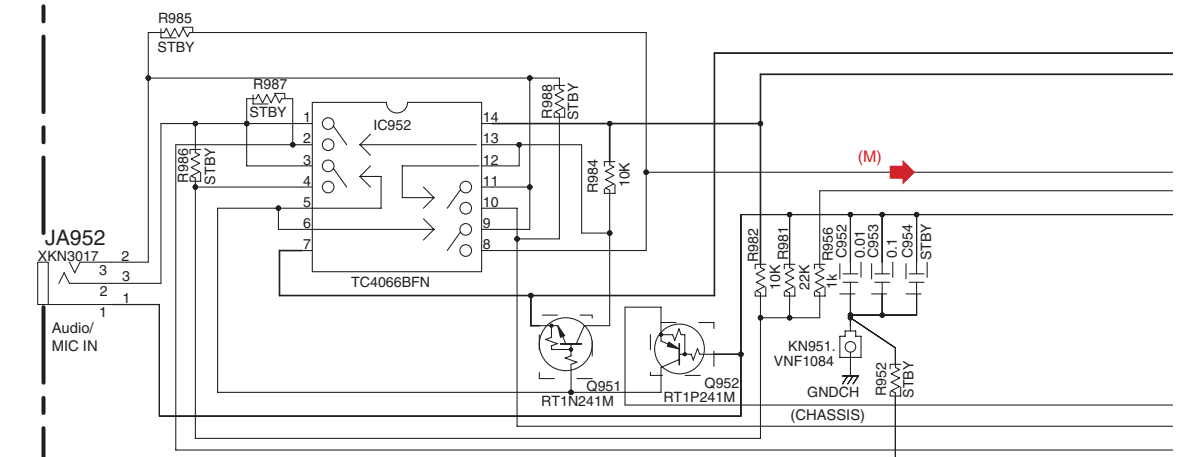
(SW): Audio Signal Route (SubWoofer ch)

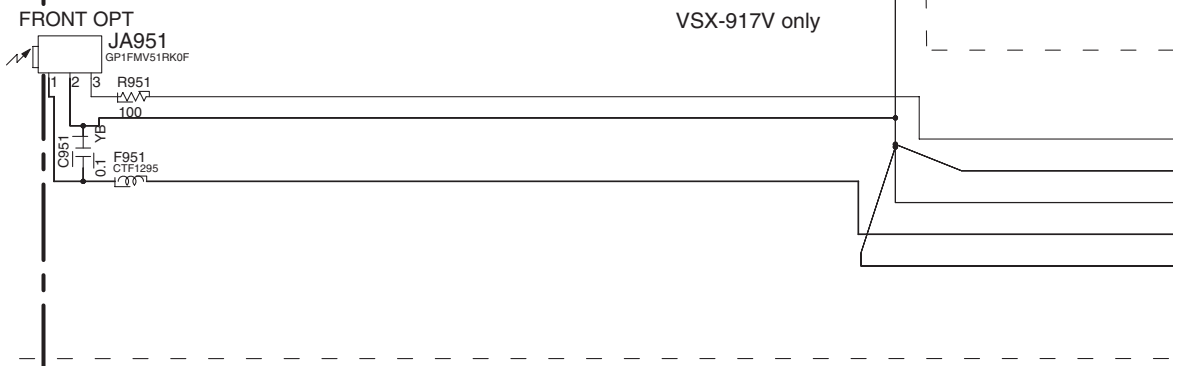
D E F

Q R S T

3.15 FRONT IN ASSY

FRONT IN ASSY
(VSX-917V:XWK3313) (VSX-817:XWK3311)





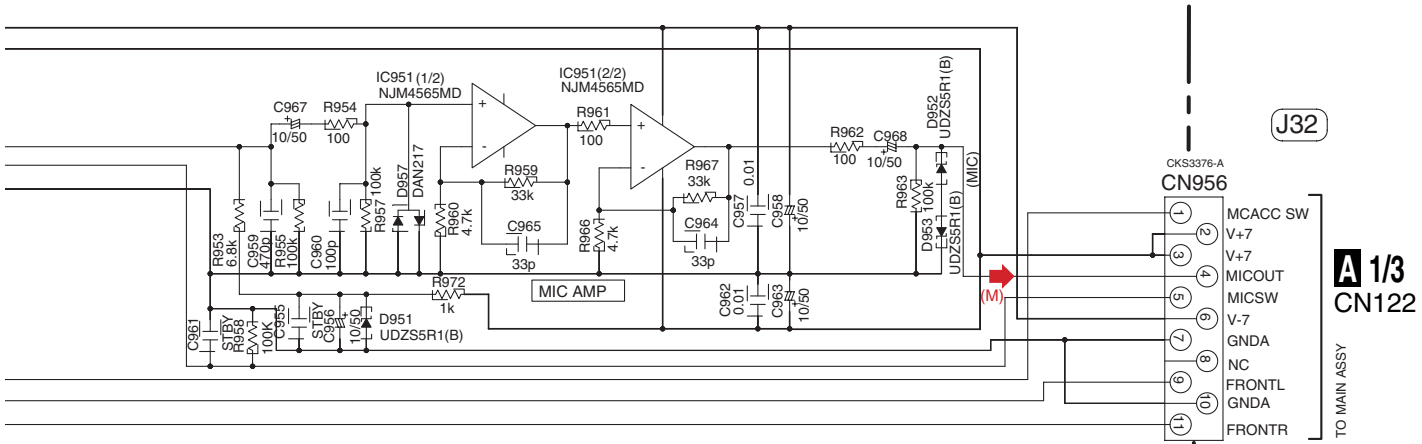
NOTE

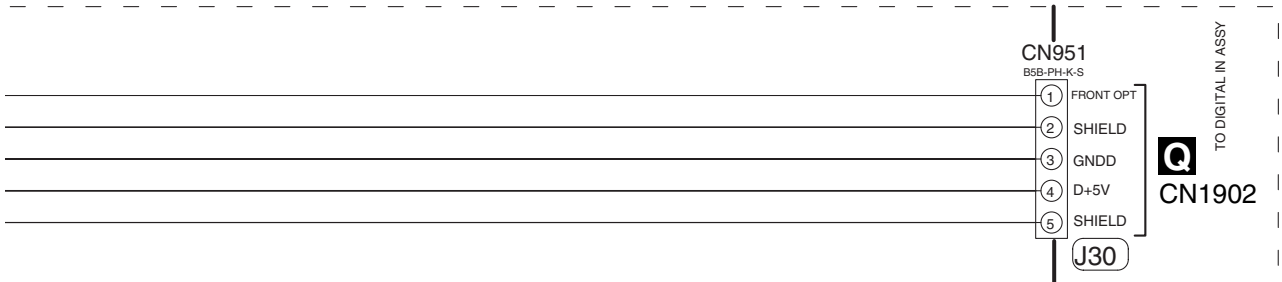
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.

MODEL	ASSY NO	USB	MCACC	F.AUDIO IN	FRONT OPT
VSX-817/KUXJ/CA	XWK3311	X	O	O	X
VSX-917V/KUXJ/CA	XWK3313	X	O	O	O

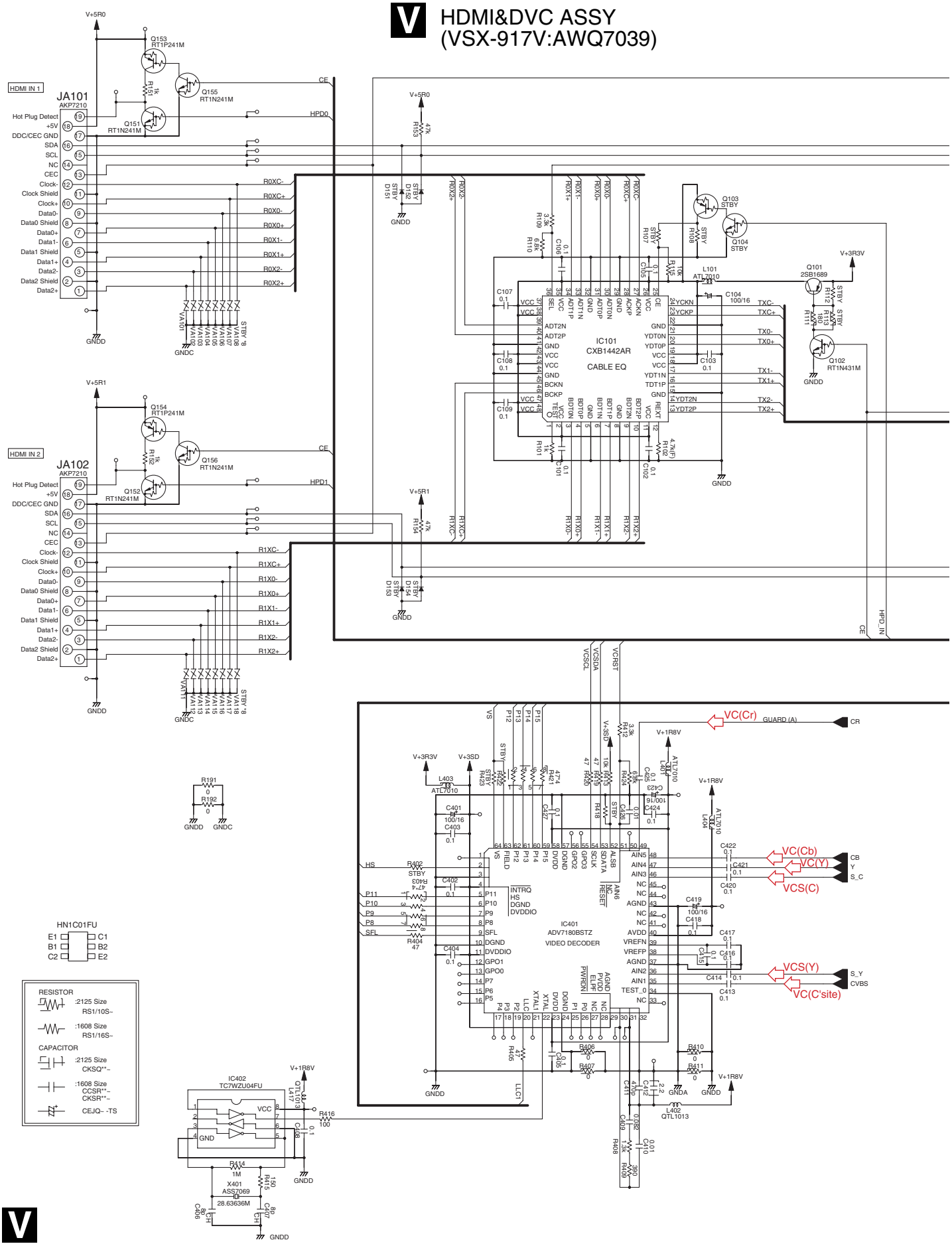
(M): Audio Signal Route (Mic)

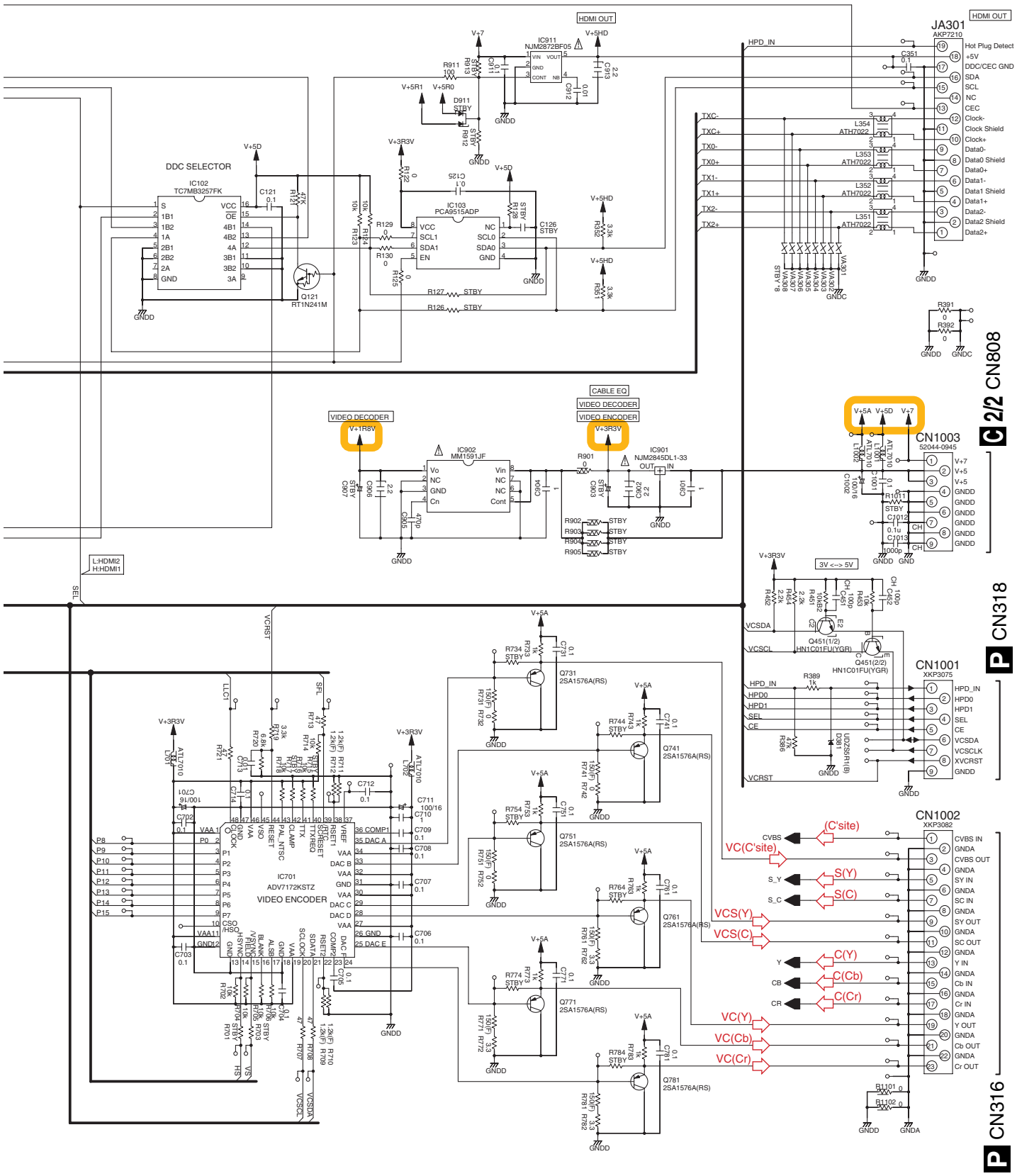




3.16 HDMI & DVC ASSY

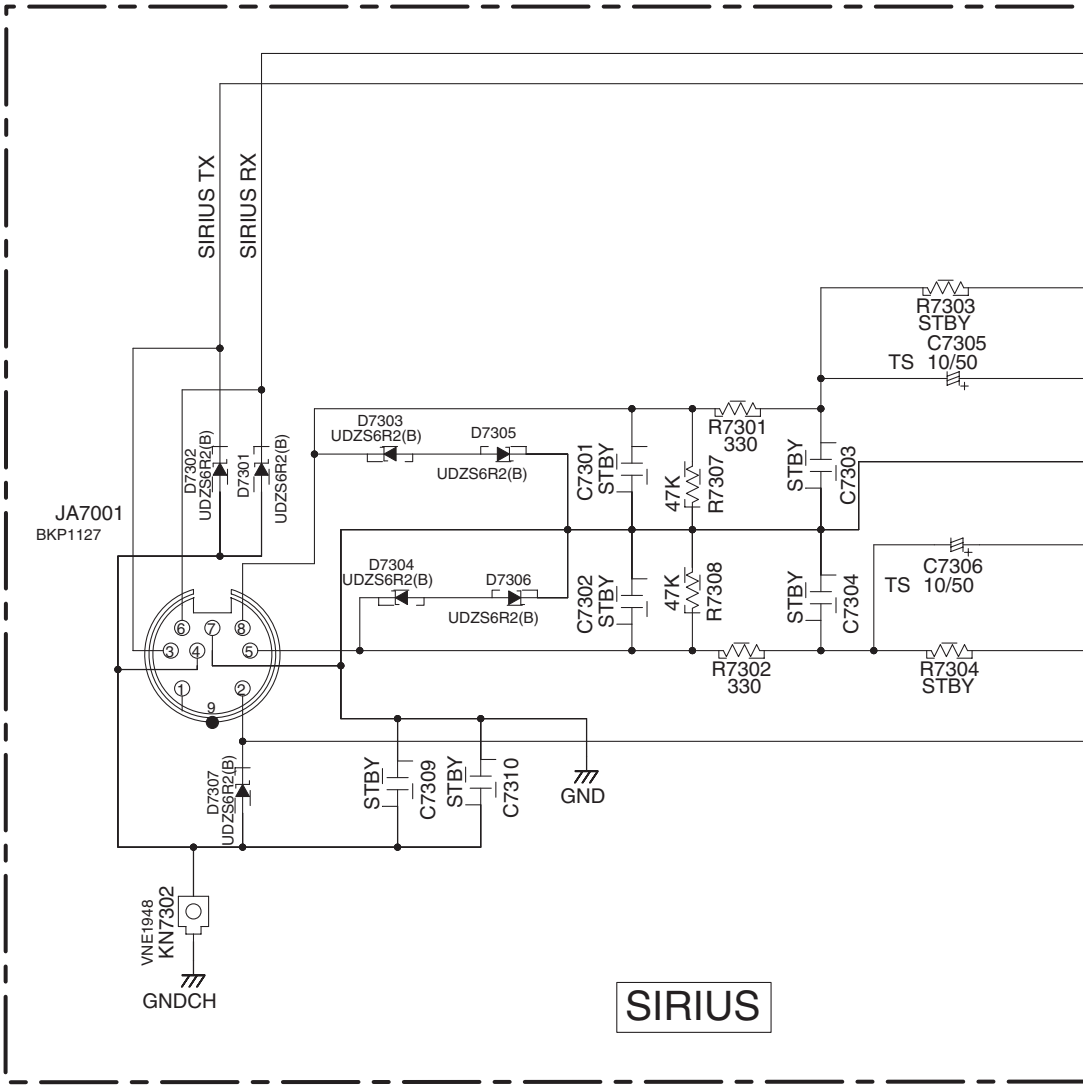
HDMI&DVC ASSY (VSX-917V:AWQ7039)

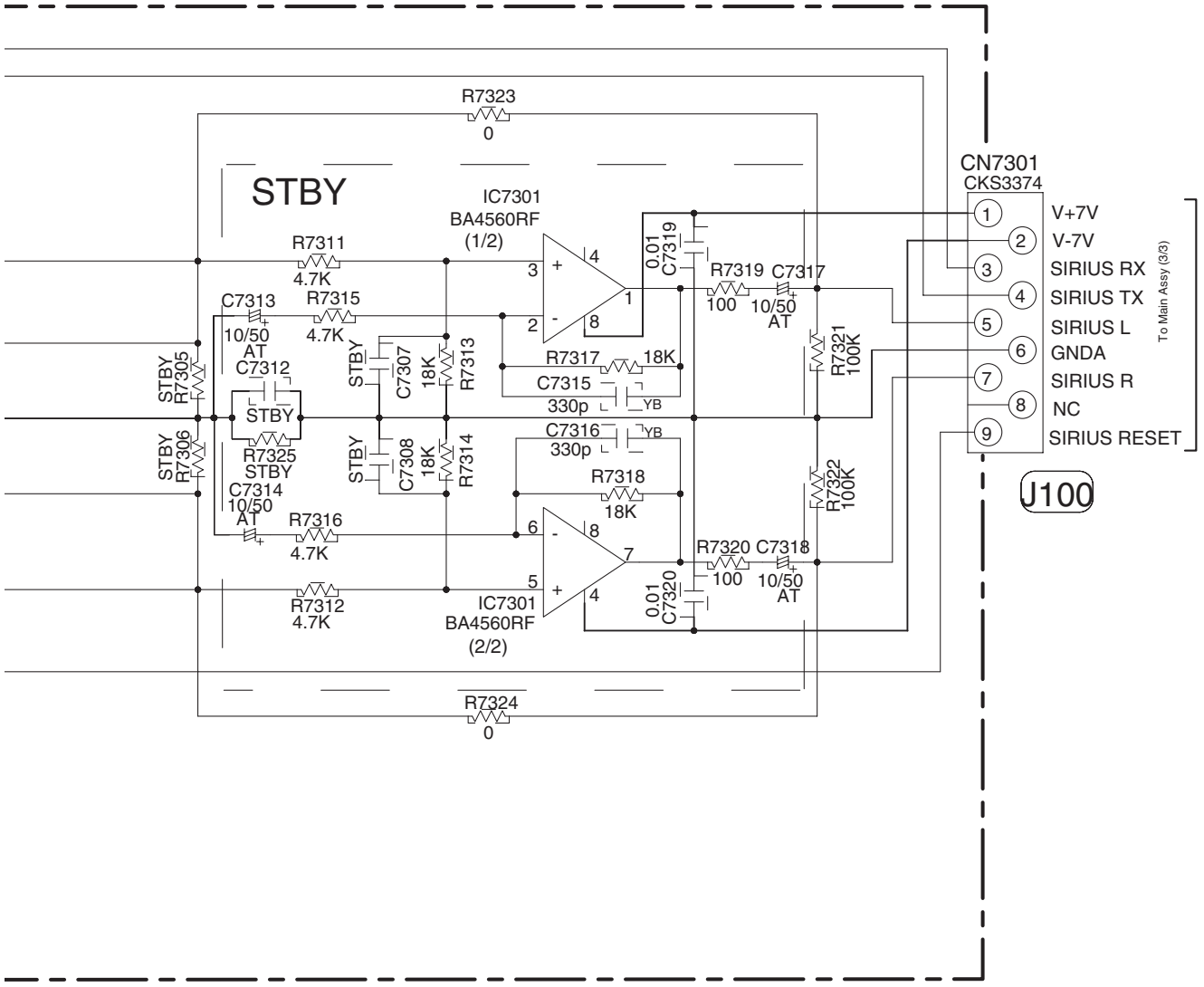



HDMI OUT
JA301
AKP7210
Hot Plug Detect
+5V
DDC/CEC GND
SDA
SCL
NC
CEC
Clock-
Clock Shield
Clock+
Data0-
Data0 Shield
Data0+
Data1-
Data1 Shield
Data1+
Data2-
Data2 Shield
Data2+
HPD_IN
TXC-
TXC+
TX0-
TX0+
TX1-
TX1+
TX2-
TX2+
IC911
NJM2872BF05
DDC SELECTOR
IC102
TC7MB3257FK
IC103
PCA9515ADP
Q121
RT1N241M
V+7
V+5HD
V+5R1
V+5R0
V+5D
V+3R3V
GNDD
GNDC
C/P 2/2 CN808
CABLE EQ
VIDEO DECODER
VIDEO ENCODER
V+1R8V
IC902
MM1591JF
IC901
NJM2845DL1-33
CN1003
52044-0945
V+5A
V+5D
V+7
V+5
V+3
GNDD
C/P CN318
L:HDMI2
H:HDMI1
SEL
VCRST
3V <--> 5V
VCSDA
VCSCL
Q451(1/2)
HN1C01FU(YGR)
Q451(2/2)
HN1C01FU(YGR)
CN1001
XKP3075
HPD_IN
HPD0
HPD1
SEL
CE
VCSDA
VCSCLK
XVCRST
GNDD
LLC1
SFL
IC701
ADV7172KSTZ
VIDEO ENCODER
Q731
2SA1576A(RS)
Q741
2SA1576A(RS)
Q751
2SA1576A(RS)
Q761
2SA1576A(RS)
Q771
2SA1576A(RS)
Q781
2SA1576A(RS)
CN1002
XKP3082
(C'site)
VC(C'site)
S(Y)
S(C)
VCS(Y)
VCS(C)
C(Y)
C(Cb)
C(Cr)
VC(Y)
VC(Cb)
VC(Cr)
CVBS
S_Y
S_C
Y
CB
CR
C/P CN316
V
VSX-917V-K
45

3.17 SIRIUS ASSY

SIRIUS ASSY
(XWZ4251)




R7323
0
STBY
IC7301
BA4560RF
(1/2)
R7311
4.7K
C7313
10/50
AT
R7315
4.7K
C7312
STBY
R7325
STBY
C7314
10/50
AT
R7316
4.7K
R7312
4.7K
IC7301
BA4560RF
(2/2)
STBY R7305
STBY R7306
STBY C7307
18K R7313
STBY C7308
18K R7314
0.01 C7319
R7319 100
C7317 10/50 AT
R7317 18K
C7315 330p YB
C7316 330p YB
R7318 18K
R7320 100
C7318 10/50 AT
0.01 C7320
R7321 100K
R7322 100K
R7324
0
CN7301
CKS3374
1 V+7V
2 V-7V
3 SIRIUS RX
4 SIRIUS TX
5 SIRIUS L
6 GNDA
7 SIRIUS R
8 NC
9 SIRIUS RESET
To Main Assy (3/3)
J100
A 3/3
CN132

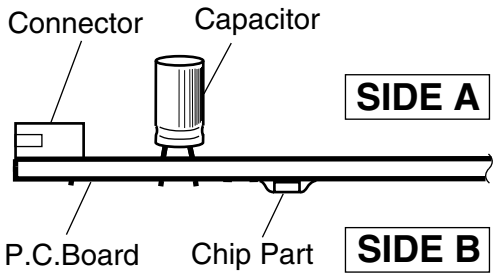
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

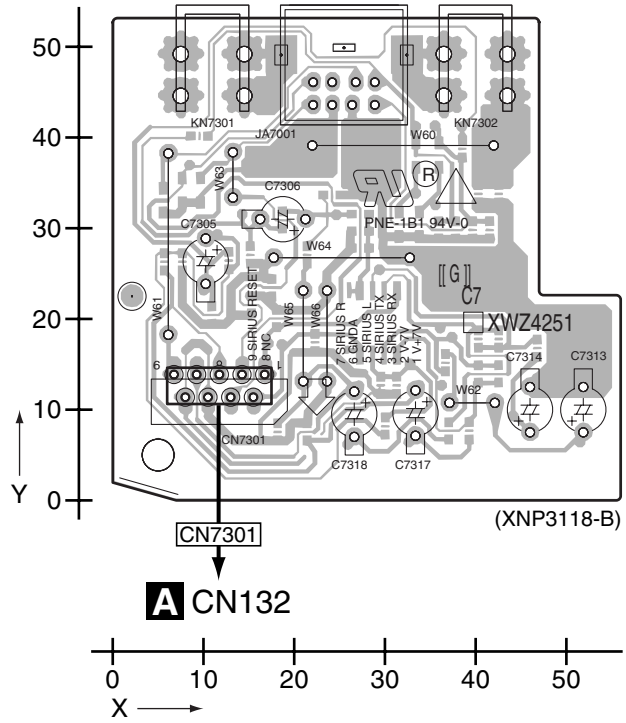


4.1 SIRIUS ASSY ASSY

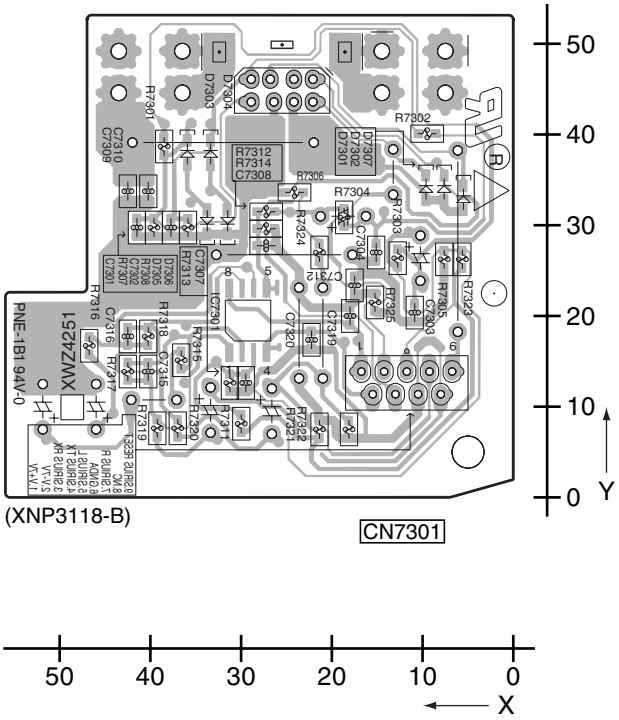
SIDE A

SIDE B

W SIRIUS ASSY

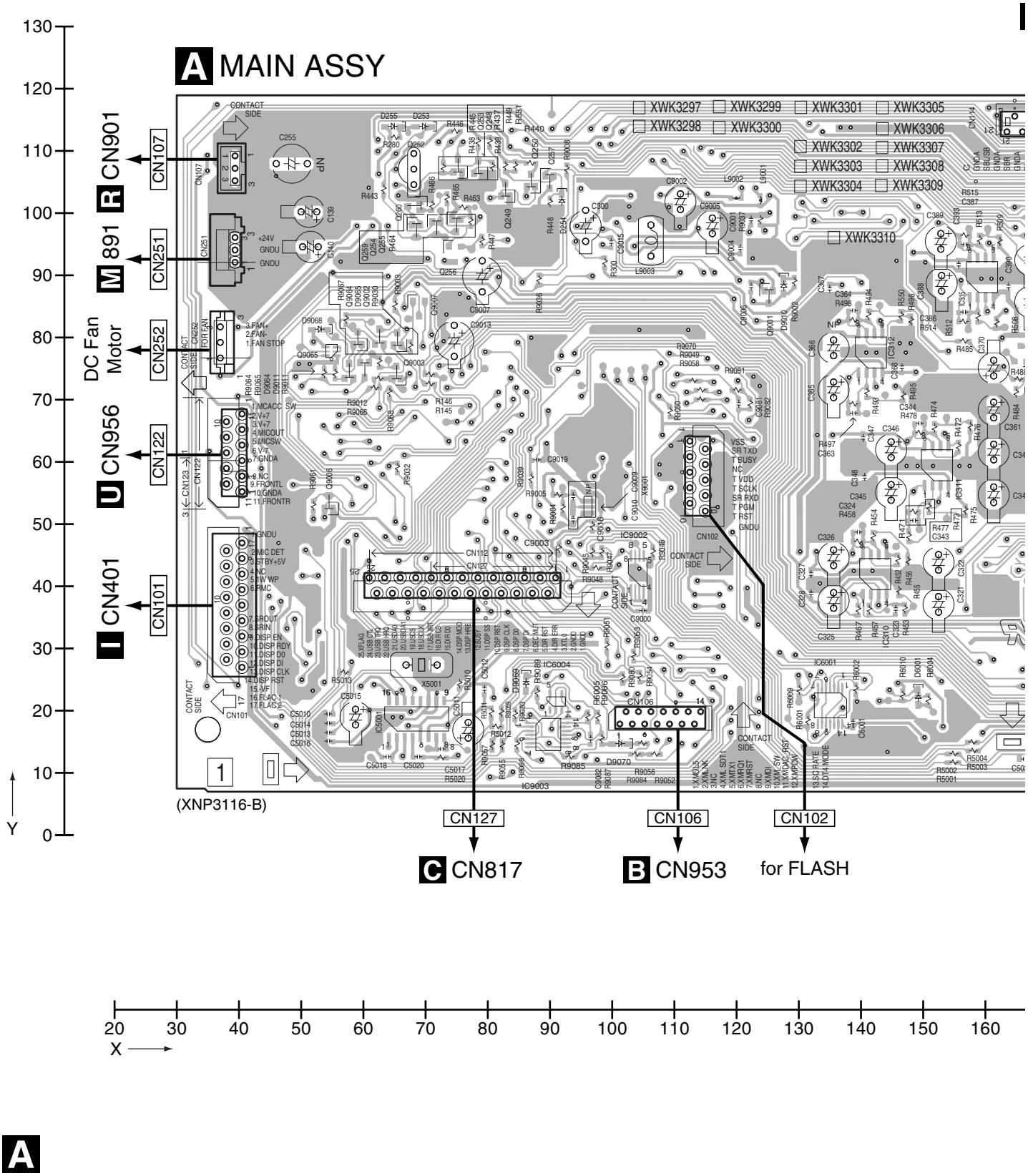


W SIRIUS ASSY

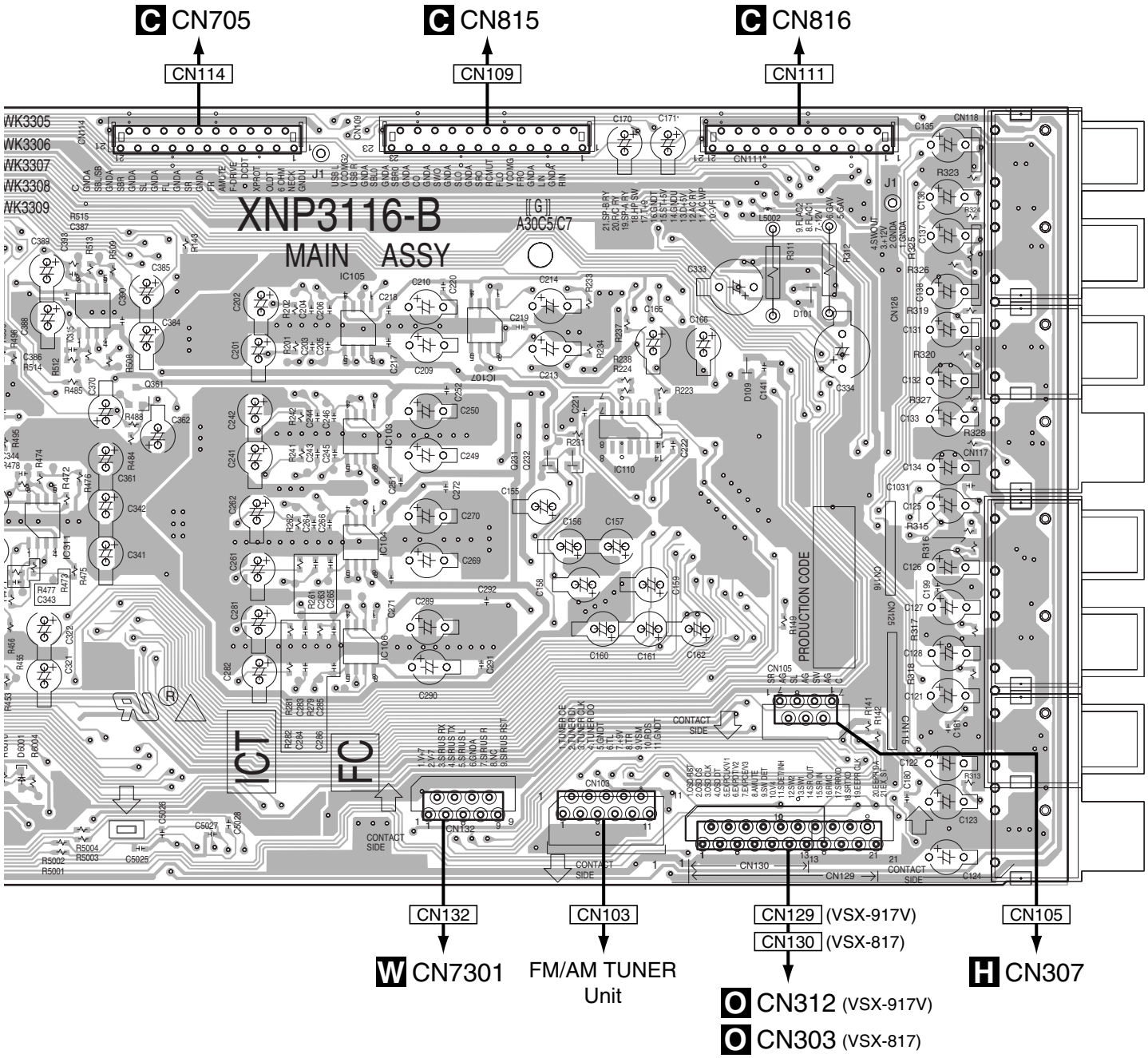


4.2 MAIN ASSY

SIDE A



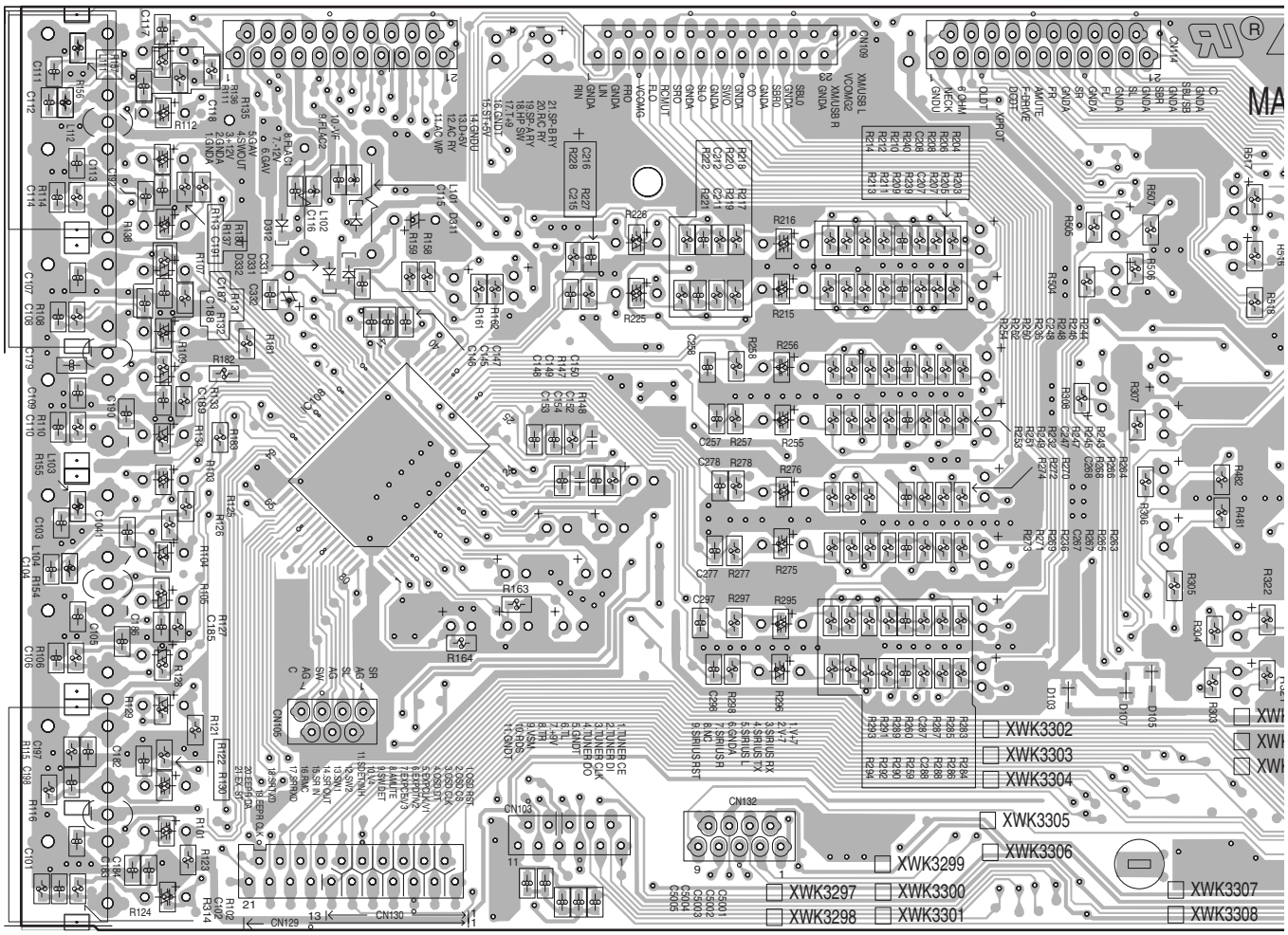
SIDE A


C CN705
CN114
C CN815
CN109
C CN816
CN111
XNP3116-B
MAIN ASSY
A30C5/C7
PRODUCTION CODE
CN132
W CN7301
CN103
FM/AM TUNER Unit
CN129 (VSX-917V)
CN130 (VSX-817)
H CN307
O CN312 (VSX-917V)
O CN303 (VSX-817)
150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300

SIDE B

A MAIN ASSY

CN111 CN109 CN114



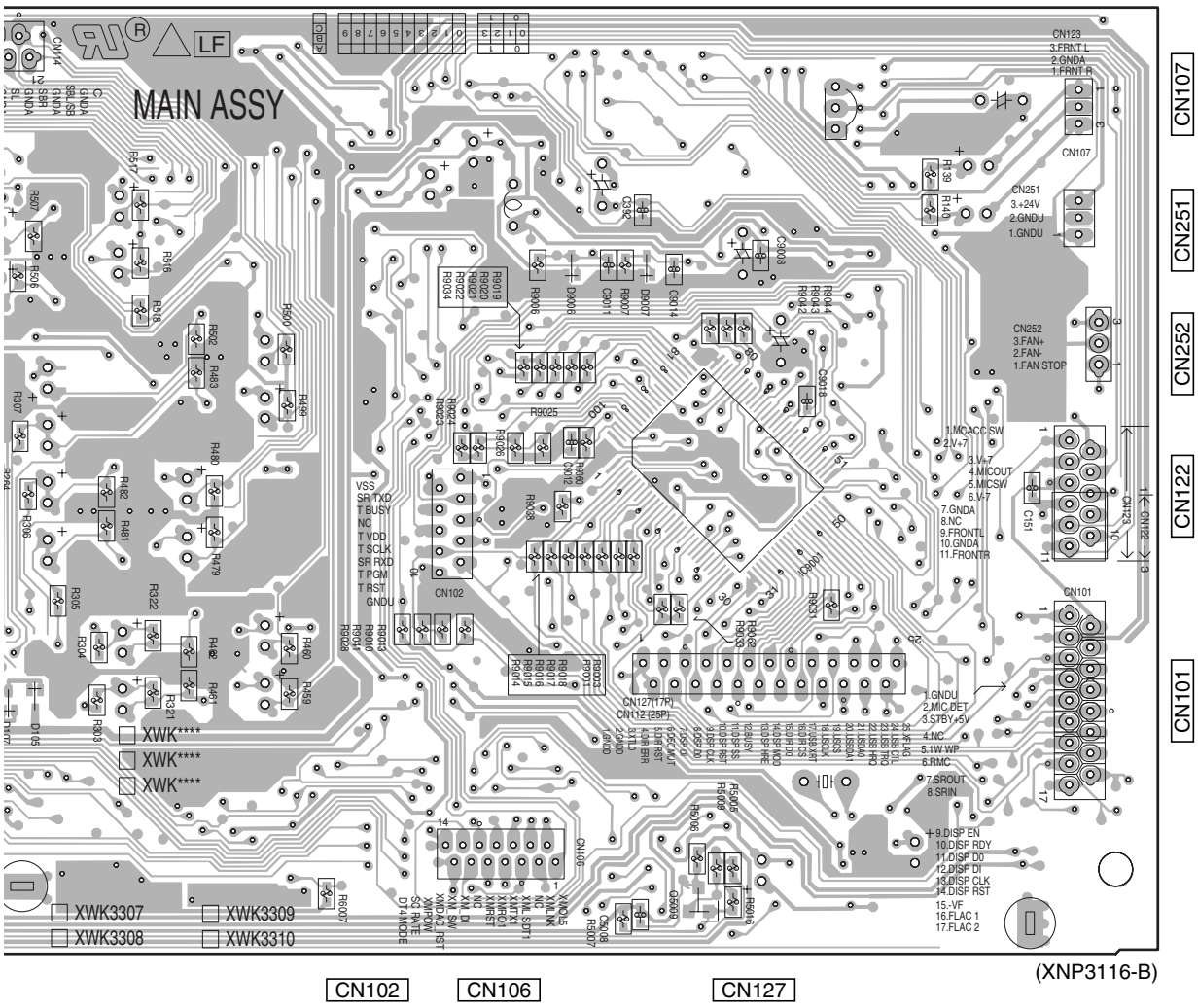
CN105 CN129 (VSX-917V) CN103 CN132

CN130 (VSX-817)

300 290 280 270 260 250 240 230 220 210 200 190 180 170 160 150

A

SIDE B

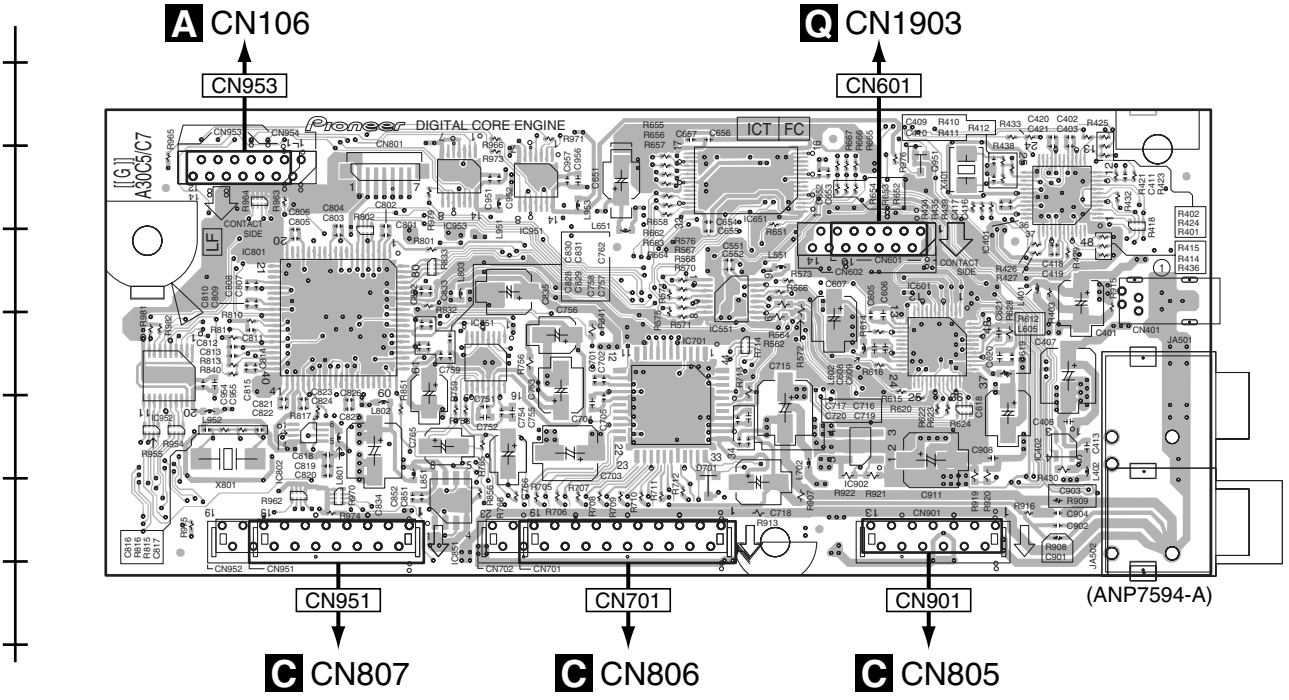

MAIN ASSY
LF
CN107
CN251
CN252
CN122
CN101
CN102
CN106
CN127
XWK****
XWK****
XWK****
XWK3307
XWK3308
XWK3309
XWK3310
(XNP3116-B)

4.3 DSP ASSY

SIDE A

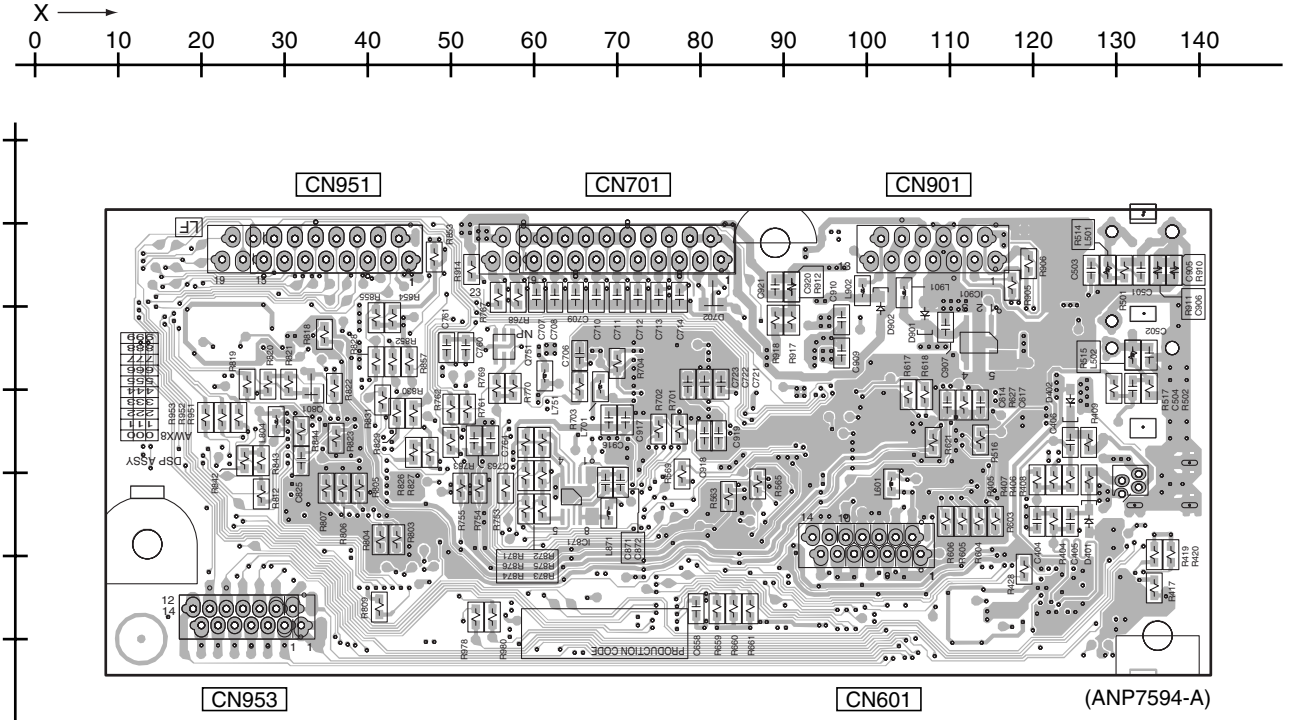
B DSP ASSY

SIDE A



SIDE B

SIDE B

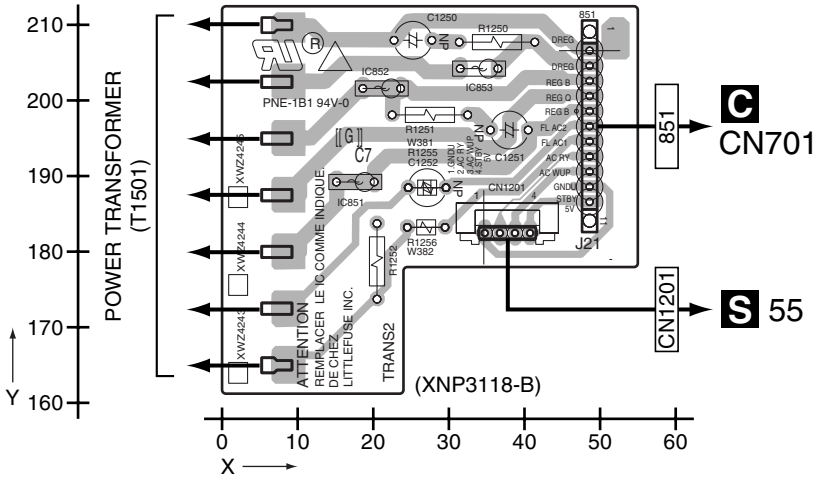


B DSP ASSY

4.4 TRANS2 and TRANS3 ASSYS

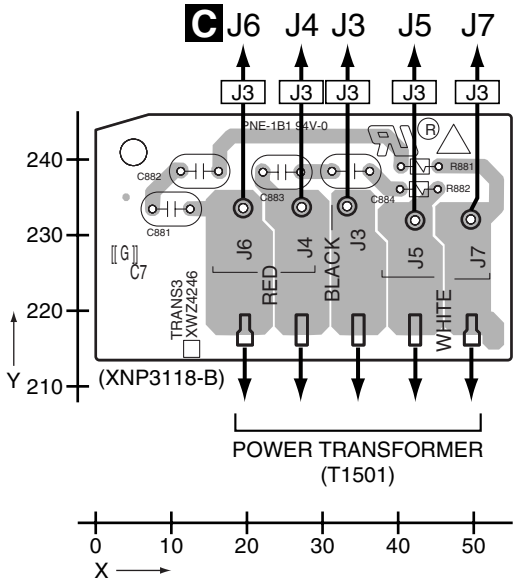
SIDE A

D TRANS2 ASSY

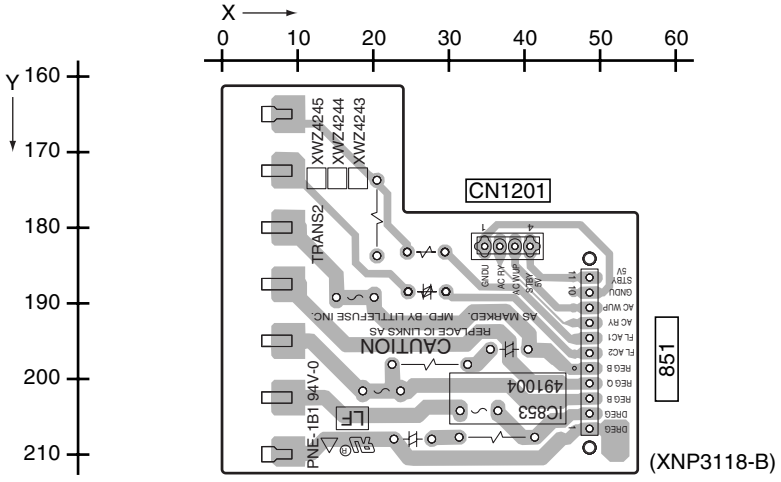


SIDE A

E TRANS3 ASSY

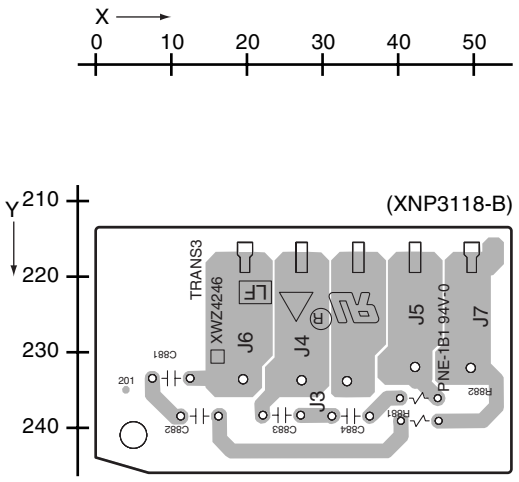


SIDE B



D TRANS2 ASSY

SIDE B



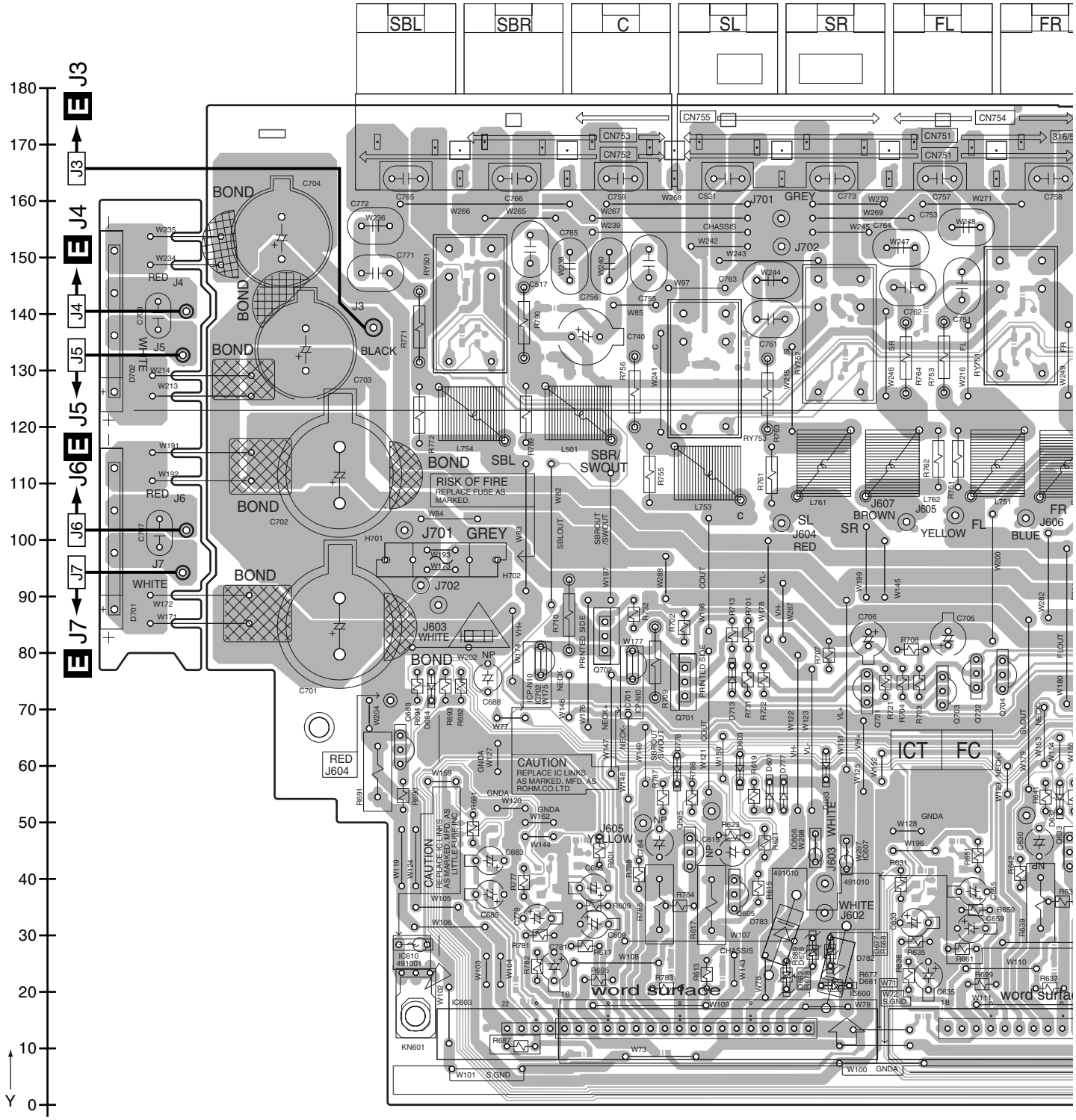
E TRANS3 ASSY

D E

4.5 POWER PACK ASSY

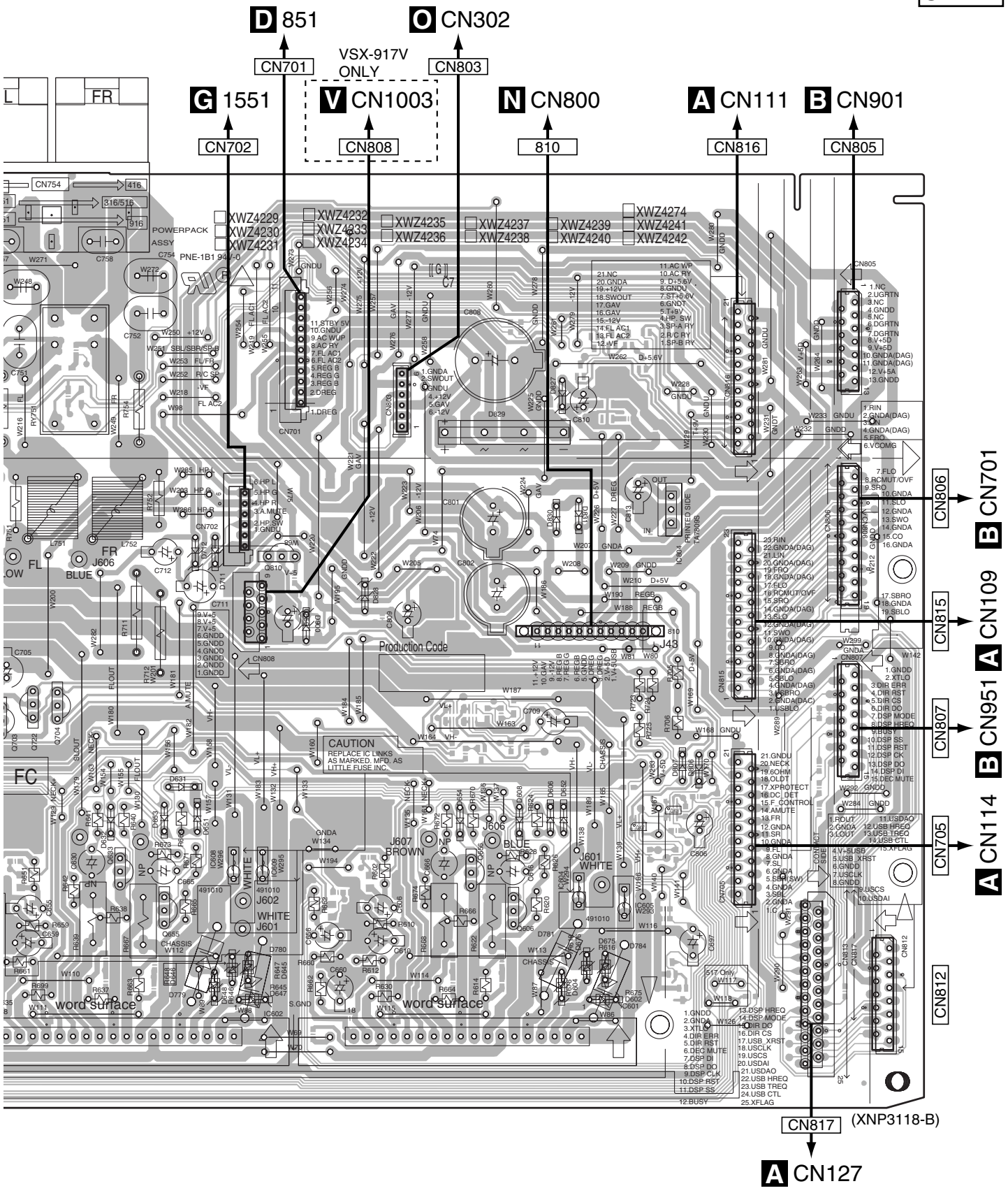
SIDE A

C POWER PACK ASSY



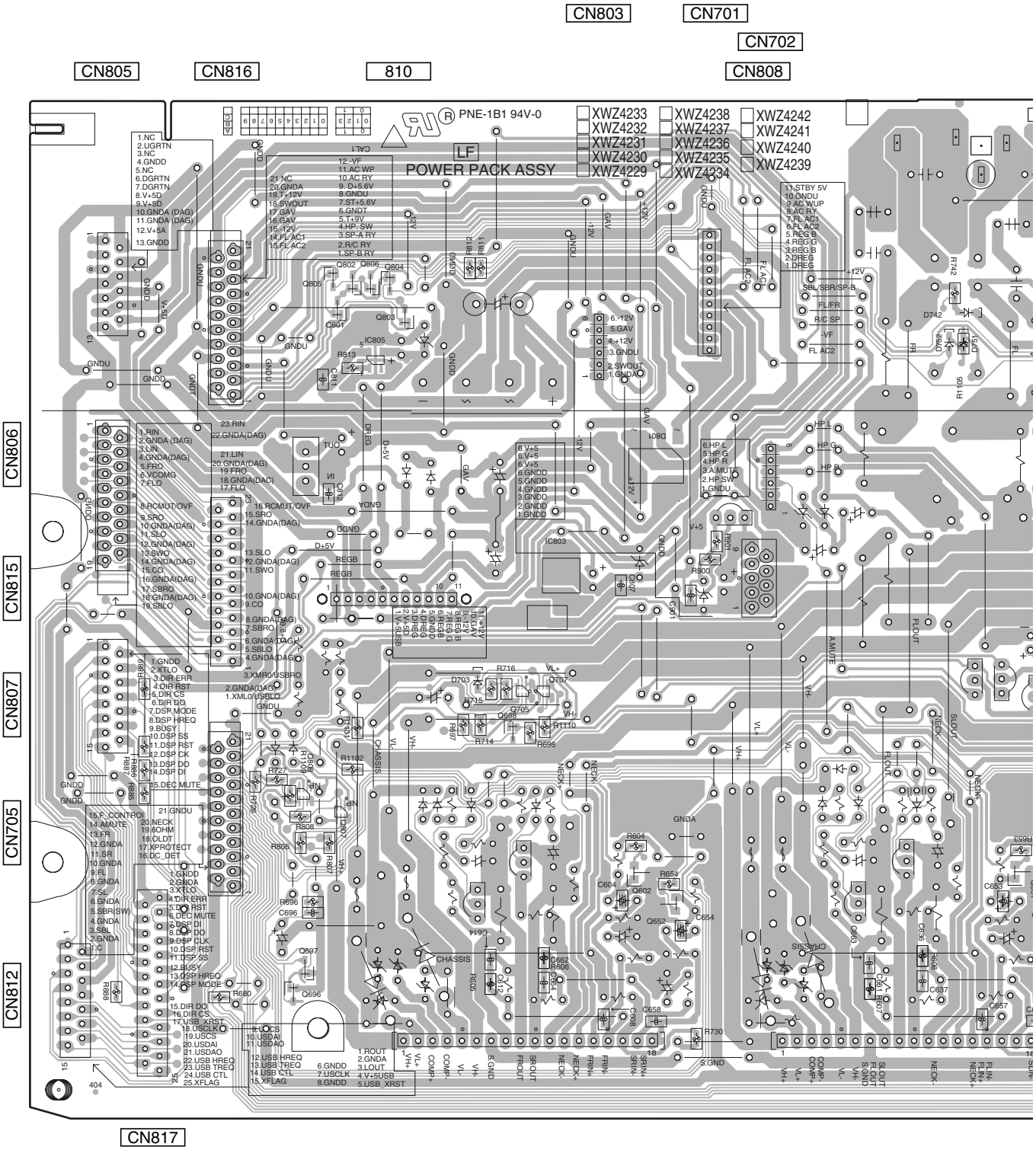
C

SIDE A

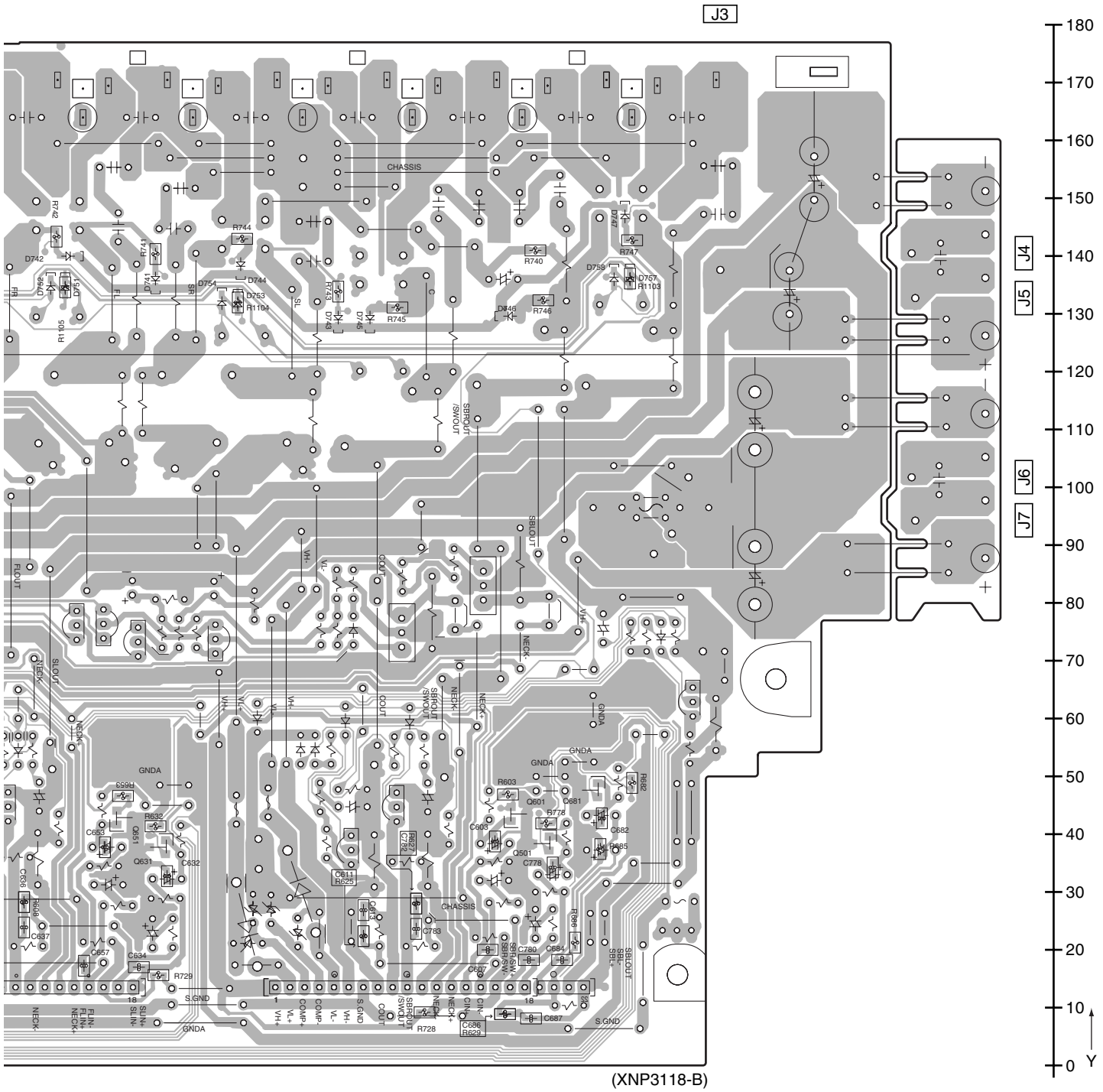

D 851
CN701
O CN302
CN803
VSX-917V ONLY
G 1551
CN702
V CN1003
CN808
N CN800
810
A CN111
CN816
B CN901
CN805
XWZ4229
XWZ4230
XWZ4231
XWZ4232
XWZ4233
XWZ4234
XWZ4235
XWZ4236
XWZ4237
XWZ4238
XWZ4239
XWZ4240
XWZ4274
XWZ4241
XWZ4242
POWERPACK ASSY
PNE-1B1 94/-0
CN806
B CN701
CN815
A CN109
CN807
B CN951
CN705
A CN114
CN812
CN817
(XNP3118-B)
A CN127
Production Code
CAUTION
REPLACE IC LINKS AS MARKED. MFD. AS LITTLE FUSE INC.
word surface
CHASSIS
J606 BLUE
J607 BROWN
J602 WHITE
J601 WHITE
J43
FR
FL
FC
CN808
CN701
CN808
CN810
CN816
CN805
CN806
CN815
CN807
CN705
CN812
CN817

SIDE B

C POWER PACK ASSY



SIDE B



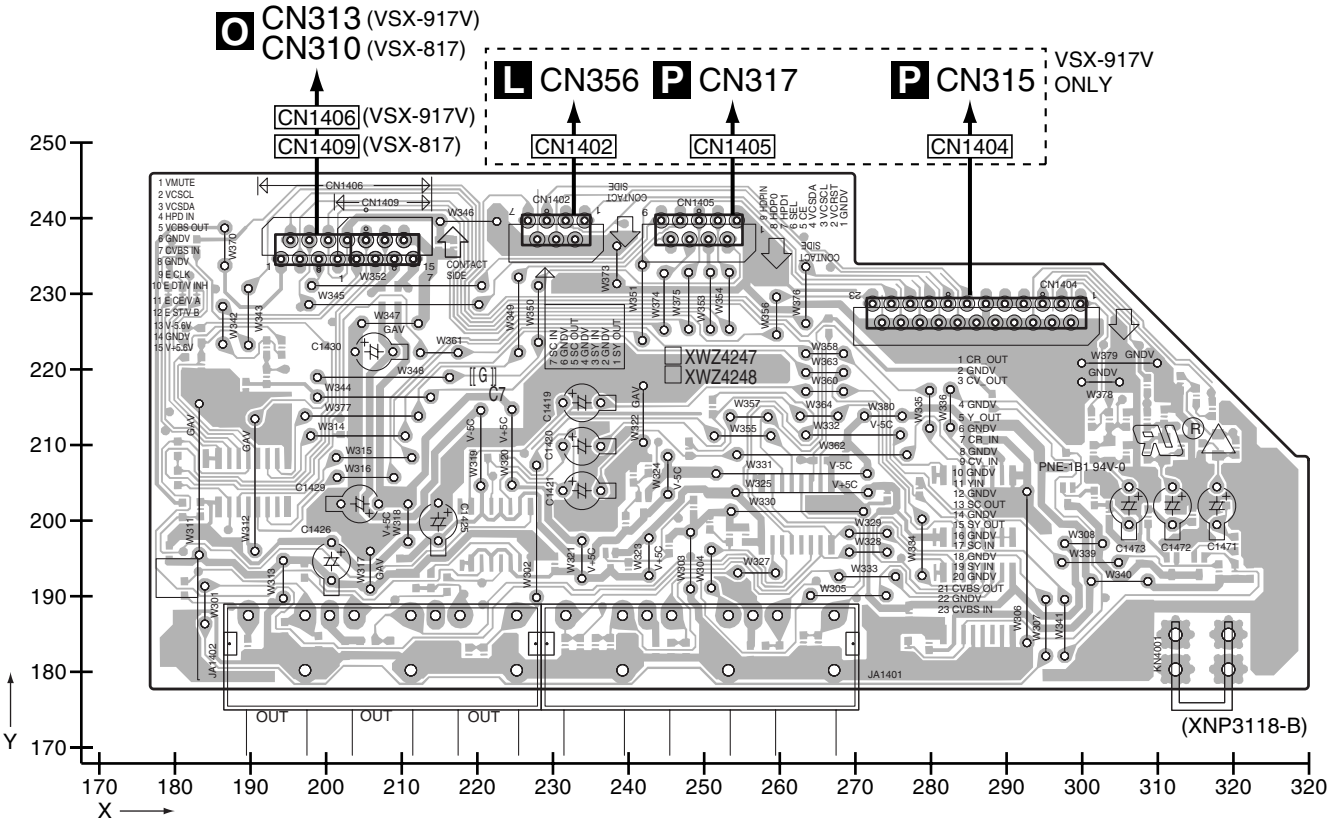
(XNP3118-B)

4.6 COMPONENT VIDEO ASSY

SIDE A

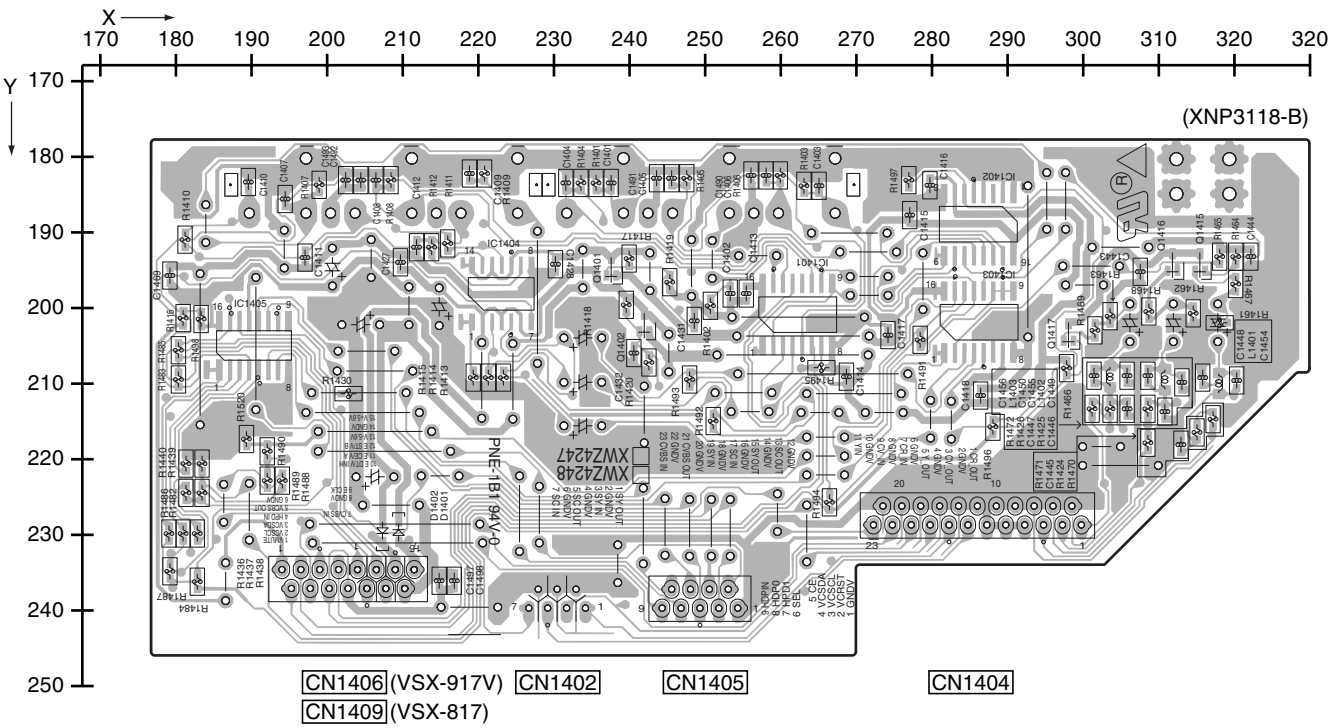
SIDE A

F COMPONENT VIDEO ASSY



SIDE B

SIDE B

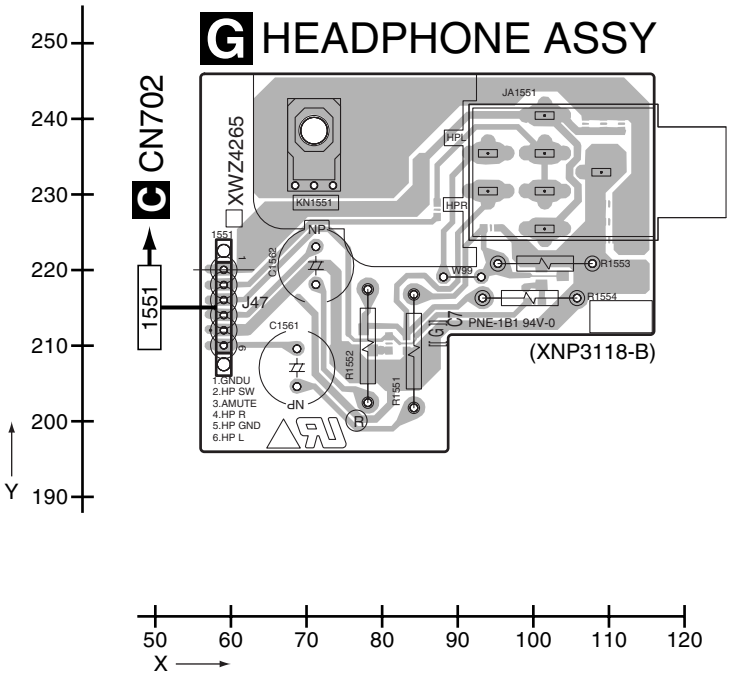


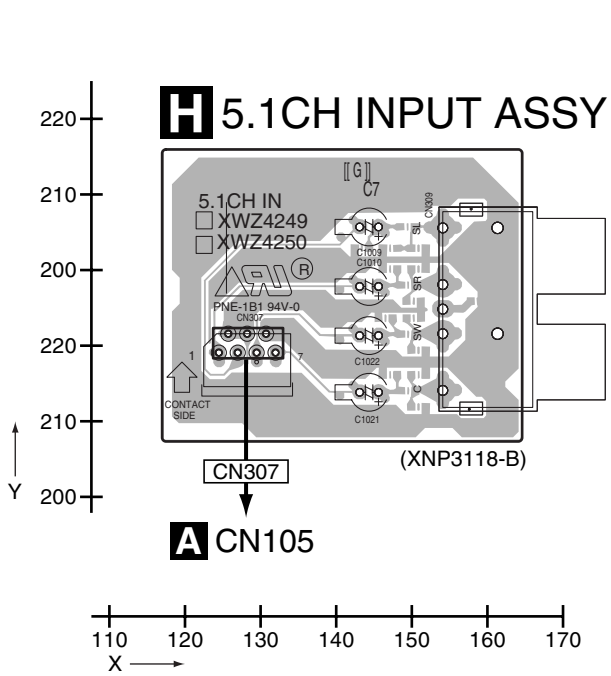
F COMPONENT VIDEO ASSY

F

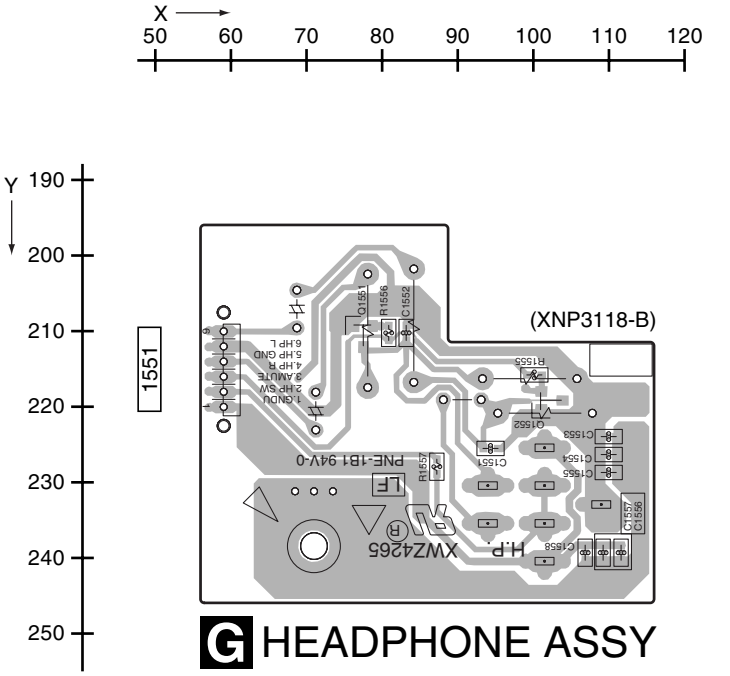
4.7 HEADPHONE and 5.1CH INPUT ASSYS

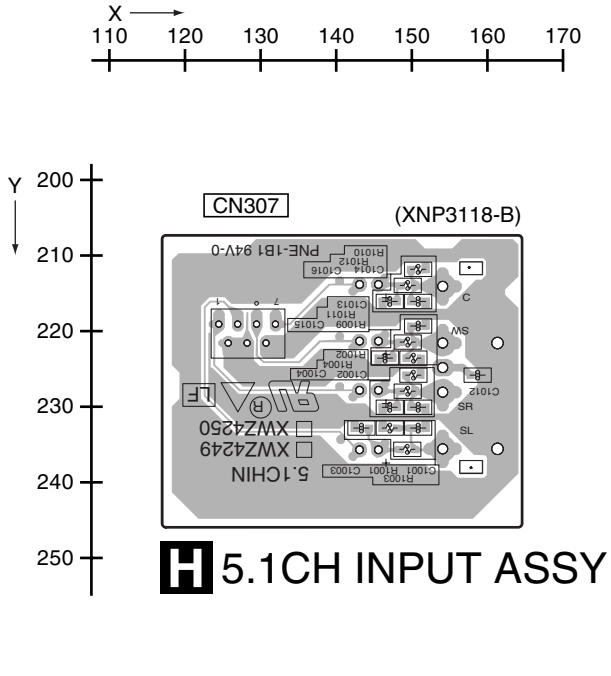
SIDE A





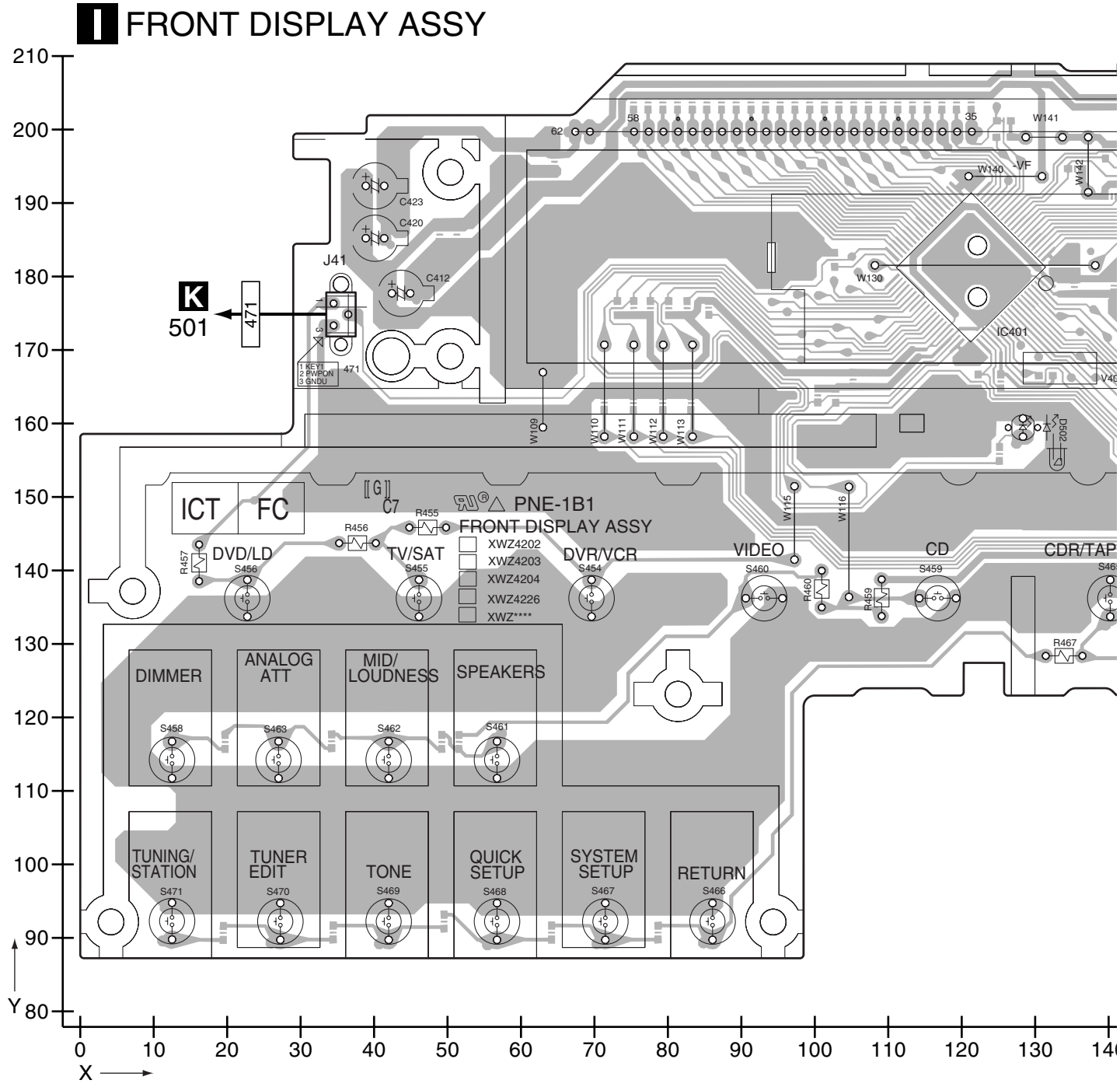
SIDE B



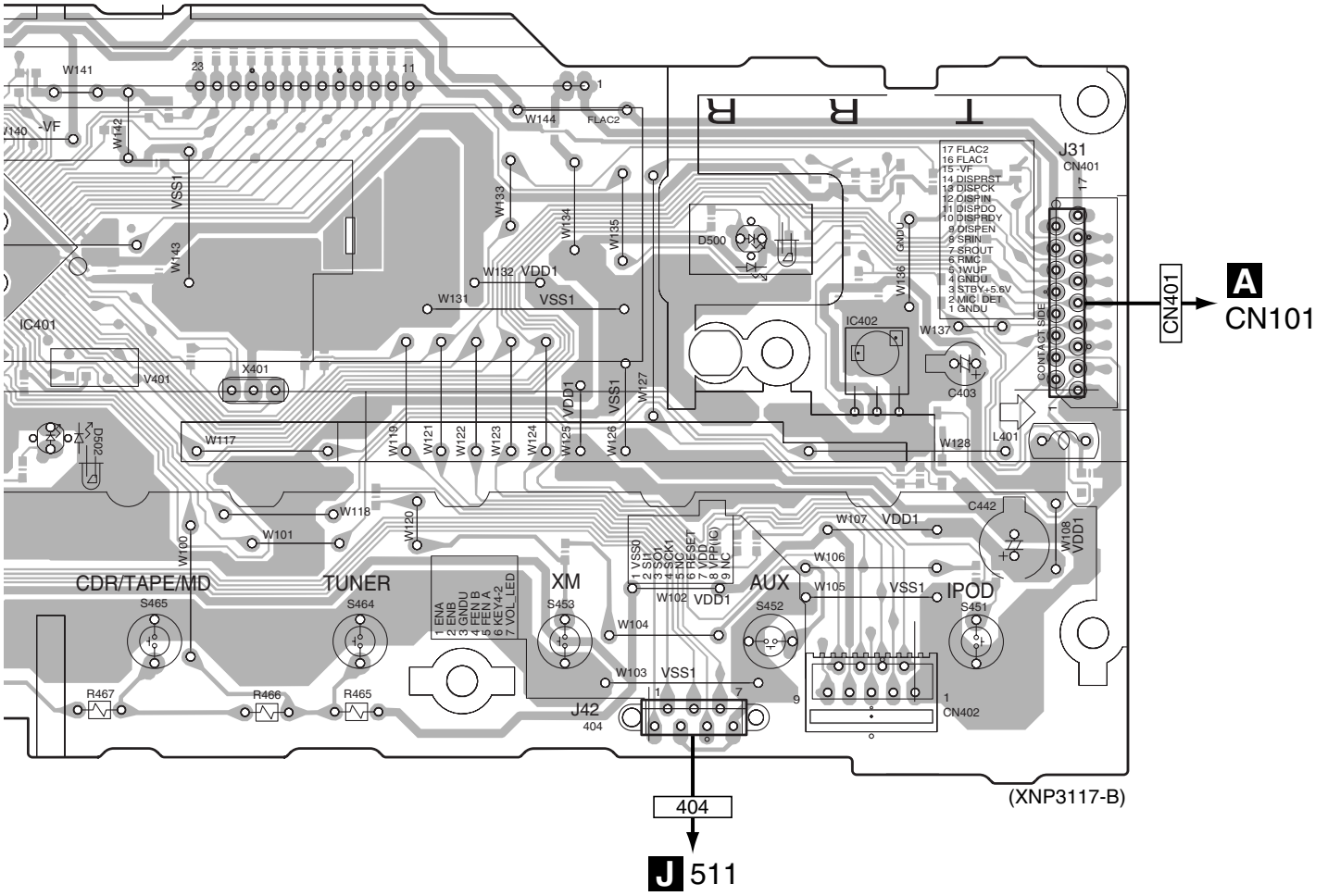


4.8 FRONT DISPLAY ASSY

SIDE A

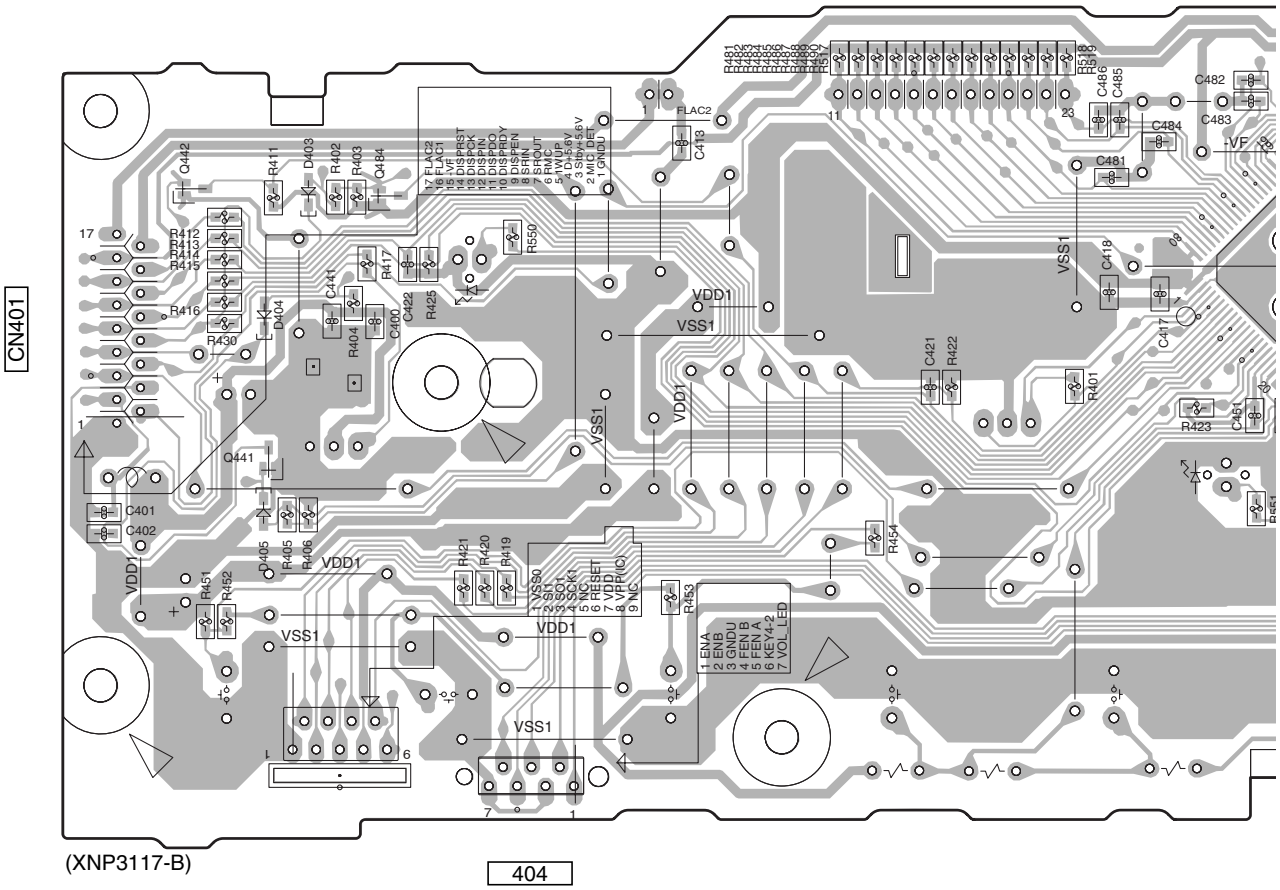


SIDE A


W141
-VF
W142
VSS1
W143
IC401
V401
X401
D502
W117
W118
W119
W121
W122
W123
W124
W125
W126
W127
W131
W132
VDD1
VSS1
W133
W134
W135
W144
FLAC2
D500
W136
GNDU
IC402
W137
C403
L401
W128
J31
CN401
17 FLAC2
16 FLAC1
15 -VF
14 DISPRST
13 DISPCK
12 DISPIN
11 DISPDO
10 DISPRDY
9 DISPEN
8 SRIN
7 SROUT
6 RMC
5 1WUP
4 GNDU
3 STBY+5.6V
2 MIC DET
1 GNDU
CONTACT SIDE
CN401
A
CN101
W100
W101
W118
W120
W102
W107
W106
W105
C442
W108
CDR/TAPE/MD
TUNER
XM
AUX
IPOD
S465
S464
S453
S452
S451
1 ENA
2 ENB
3 GNDU
4 FEN B
5 FEN A
6 KEY4-2
7 VOL_LED
1 VSS0
2 SI
3 SO
4 SCK
5 NC
6 RESET
7 VPP(G)
8 VDD1
9 NC
W104
W103
R467
R466
R465
J42
404
CN402
404
J 511
(XNP3117-B)

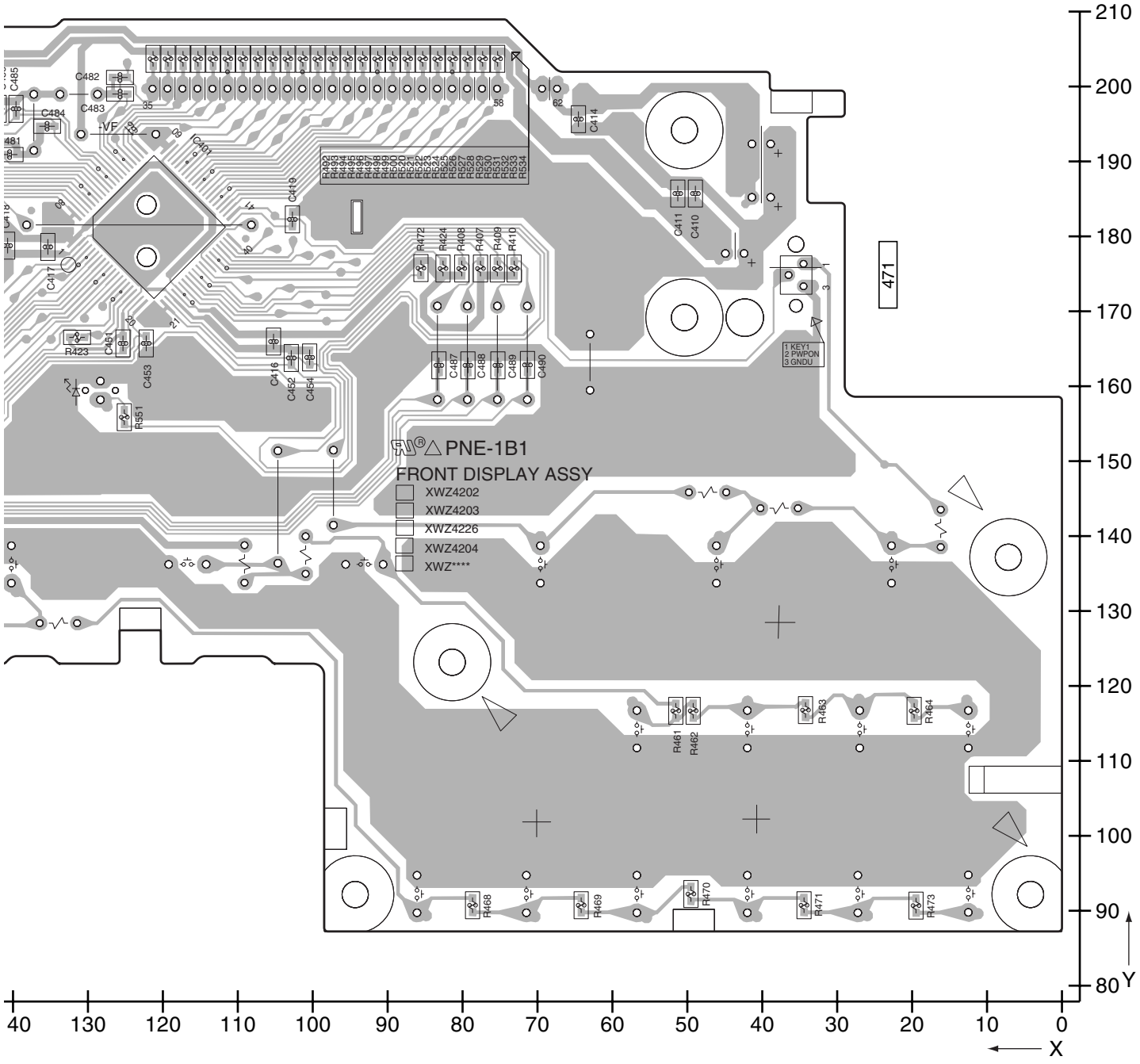
SIDE B

FRONT DISPLAY ASSY



260 250 240 230 220 210 200 190 180 170 160 150 140 130

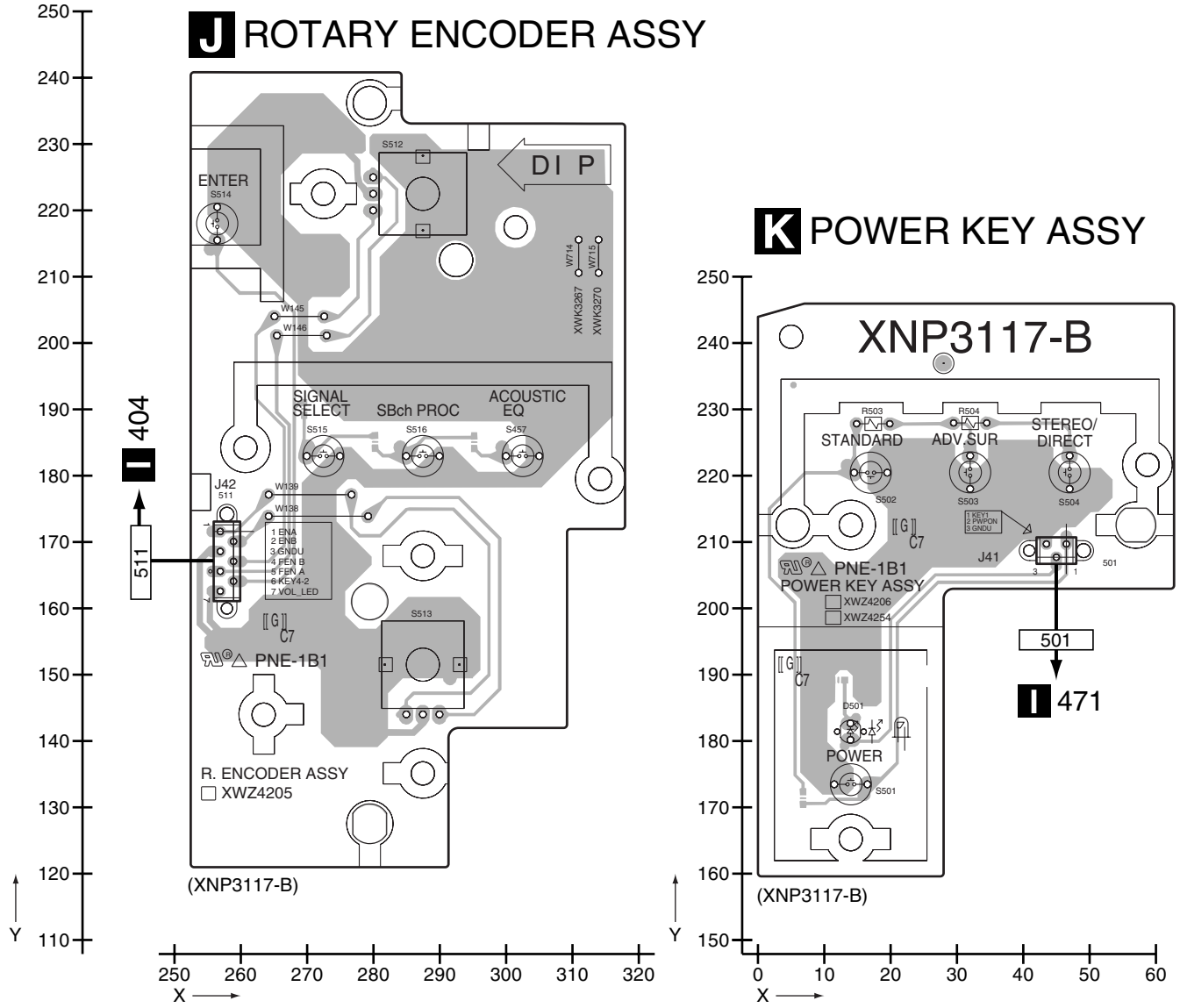
SIDE B


PNE-1B1
FRONT DISPLAY ASSY
XWZ4202
XWZ4203
XWZ4226
XWZ4204
XWZ****
471
1 KEY1
2 PWPON
3 GNDU
C482
C485
C484
C483
VF
C401
C419
C417
C411
C410
C414
R423
C461
C453
C416
C452
C454
R551
C487
C488
C489
C490
R472
R424
R408
R407
R409
R410
R461
R462
R463
R464
R468
R469
R470
R471
R473
210
200
190
180
170
160
150
140
130
120
110
100
90
80
Y
40 130 120 110 100 90 80 70 60 50 40 30 20 10 0
X

4.9 ROTARY ENCODER and POWER KEY ASSYS

SIDE A

SIDE A

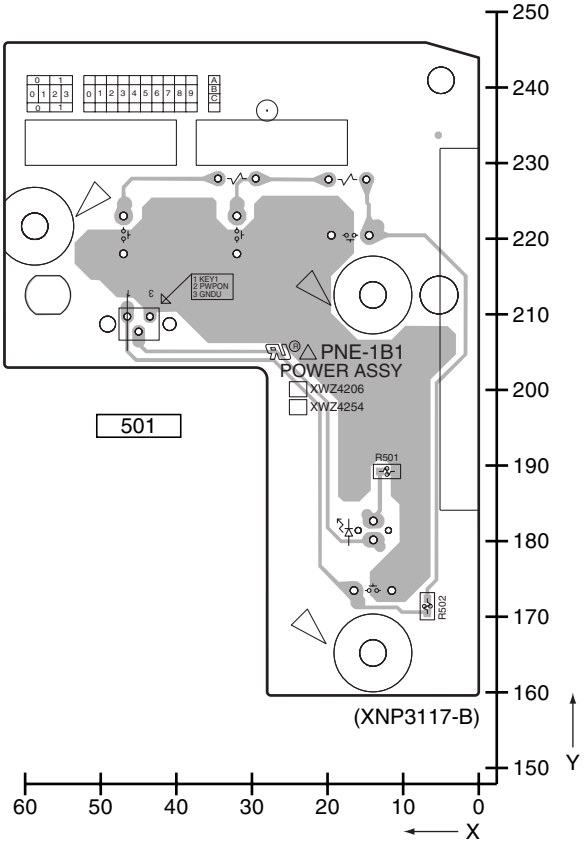


J **K**

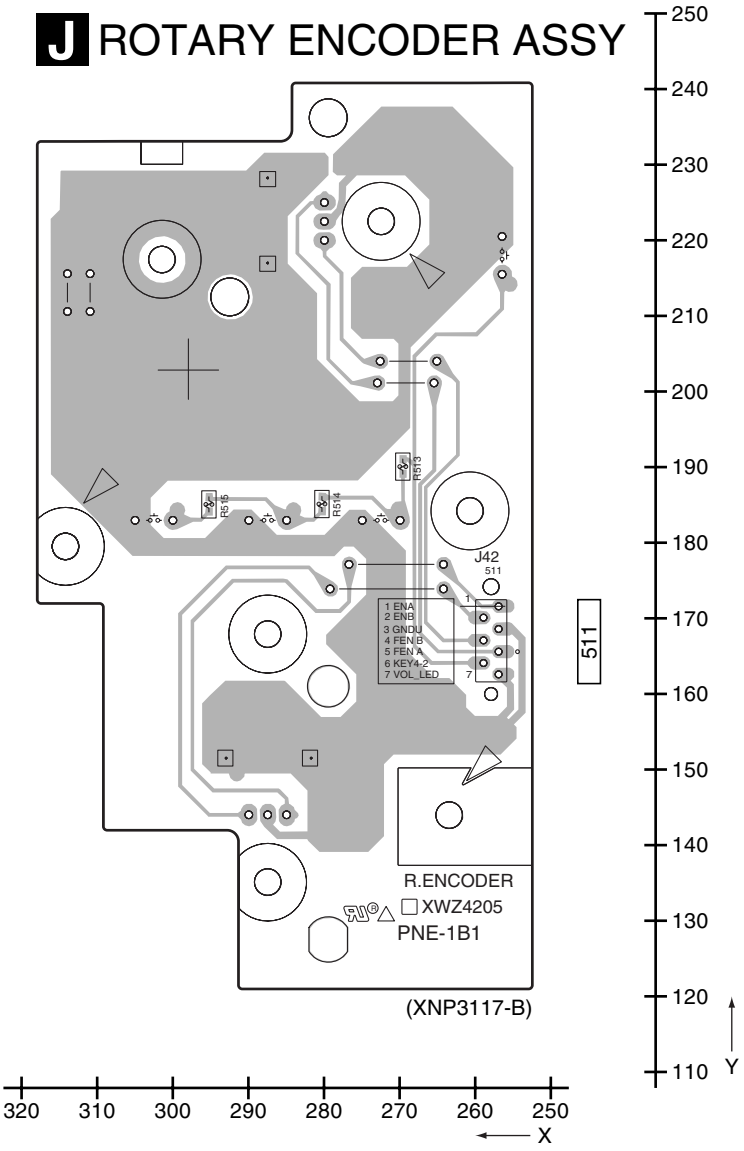
SIDE B

SIDE B

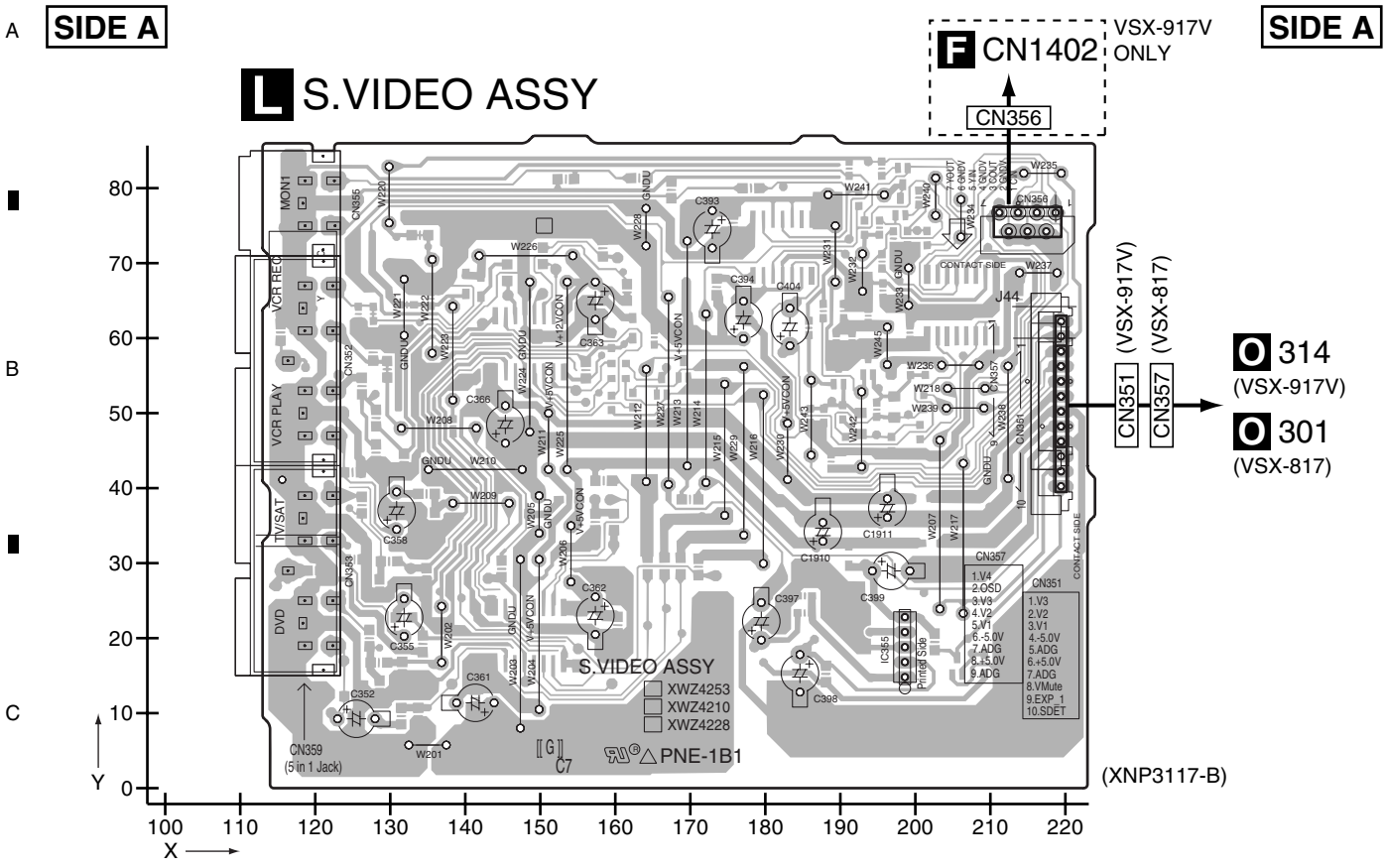
K POWER KEY ASSY

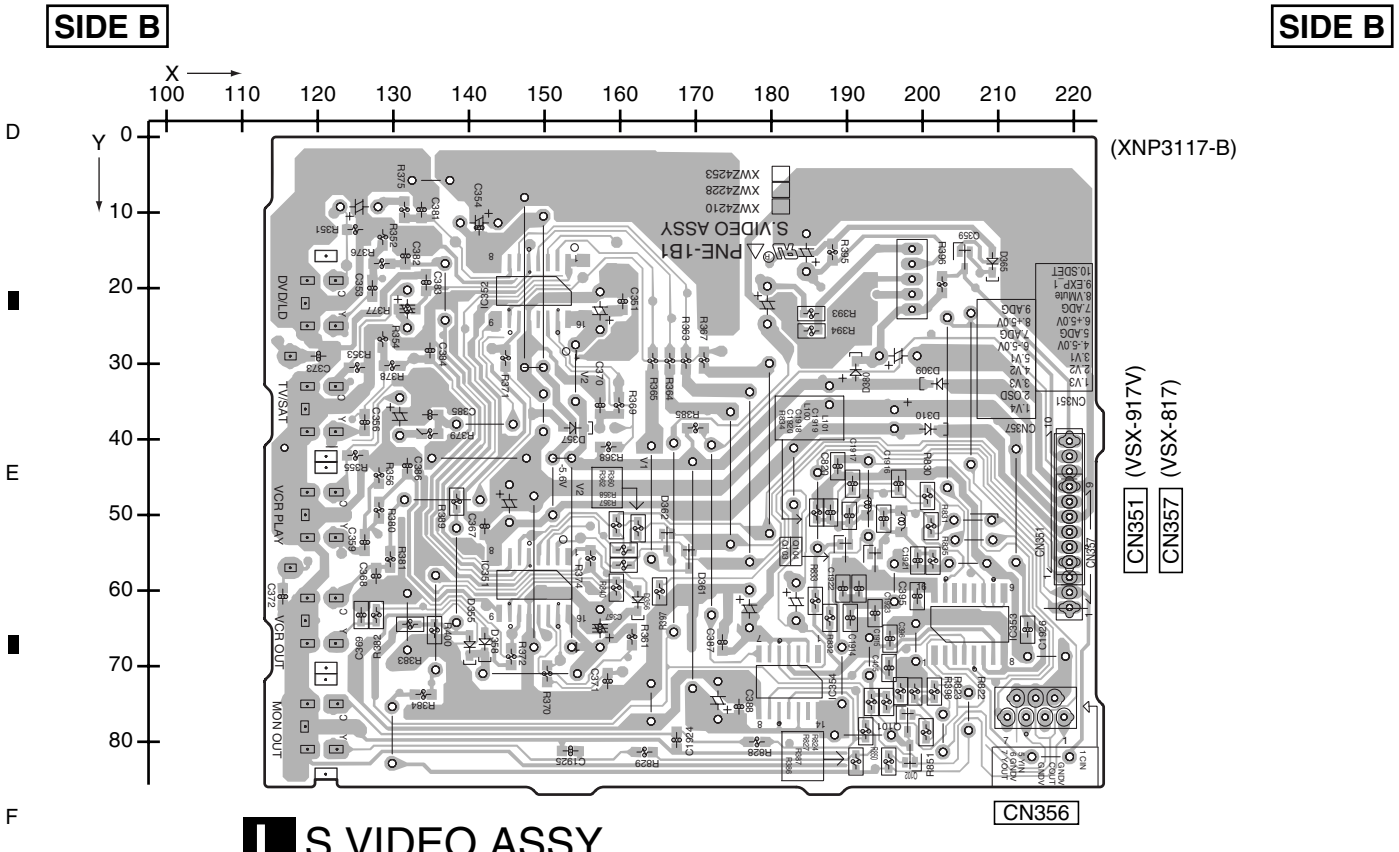


J ROTARY ENCODER ASSY



4.10 S.VIDEO ASSY

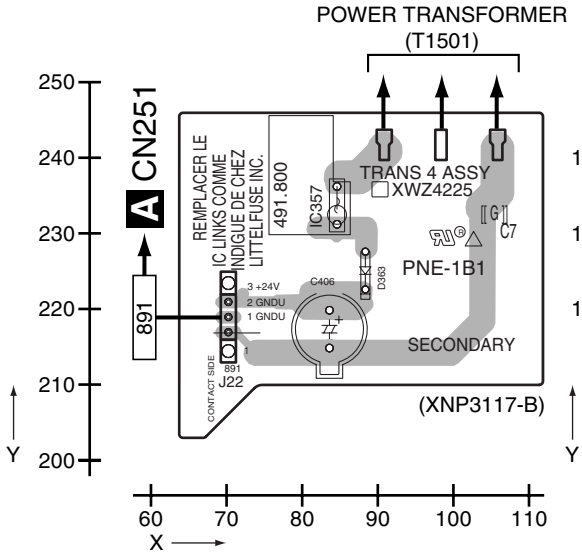




4.11 TRANS4 and REGULATOR ASSYS

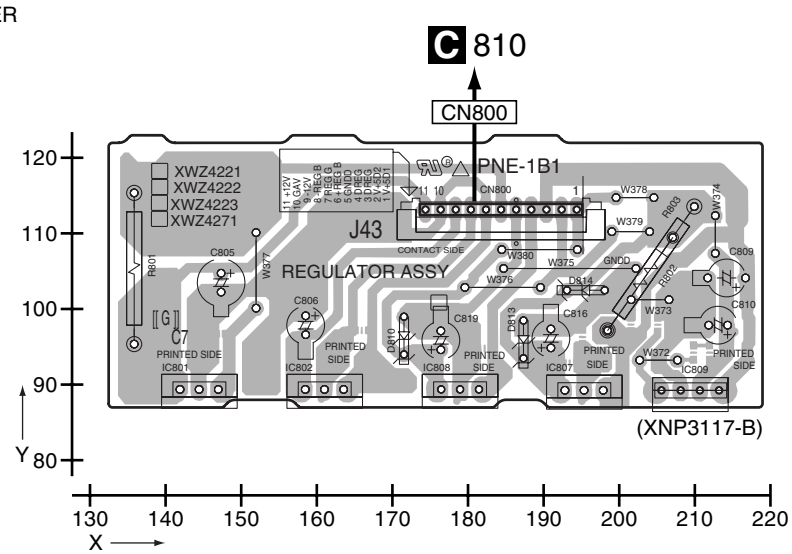
SIDE A

M TRANS4 ASSY

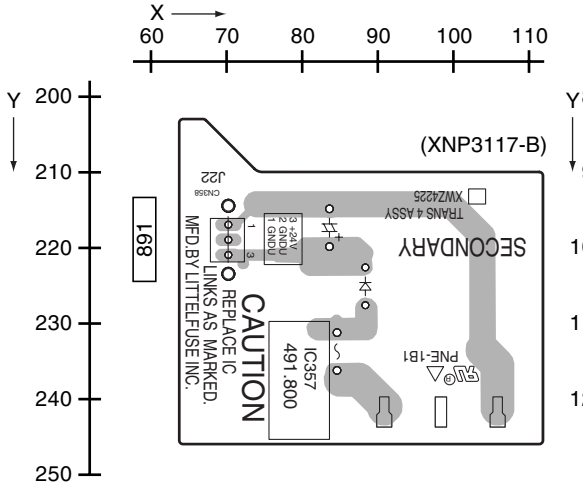


SIDE A

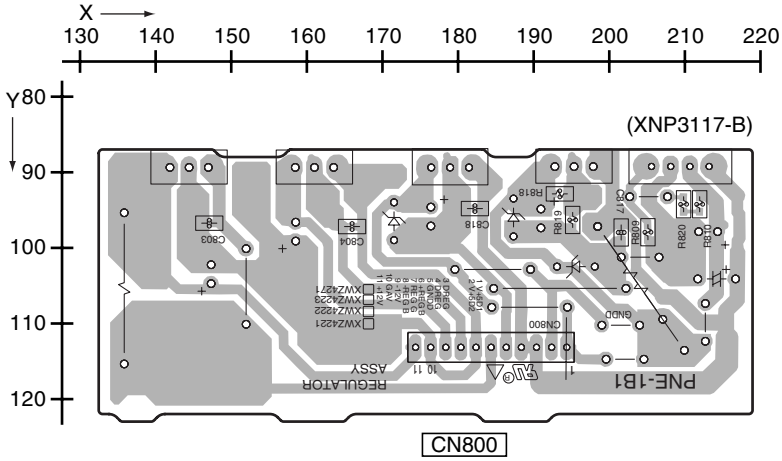
N REGULATOR ASSY



SIDE B



SIDE B



M TRANS4 ASSY

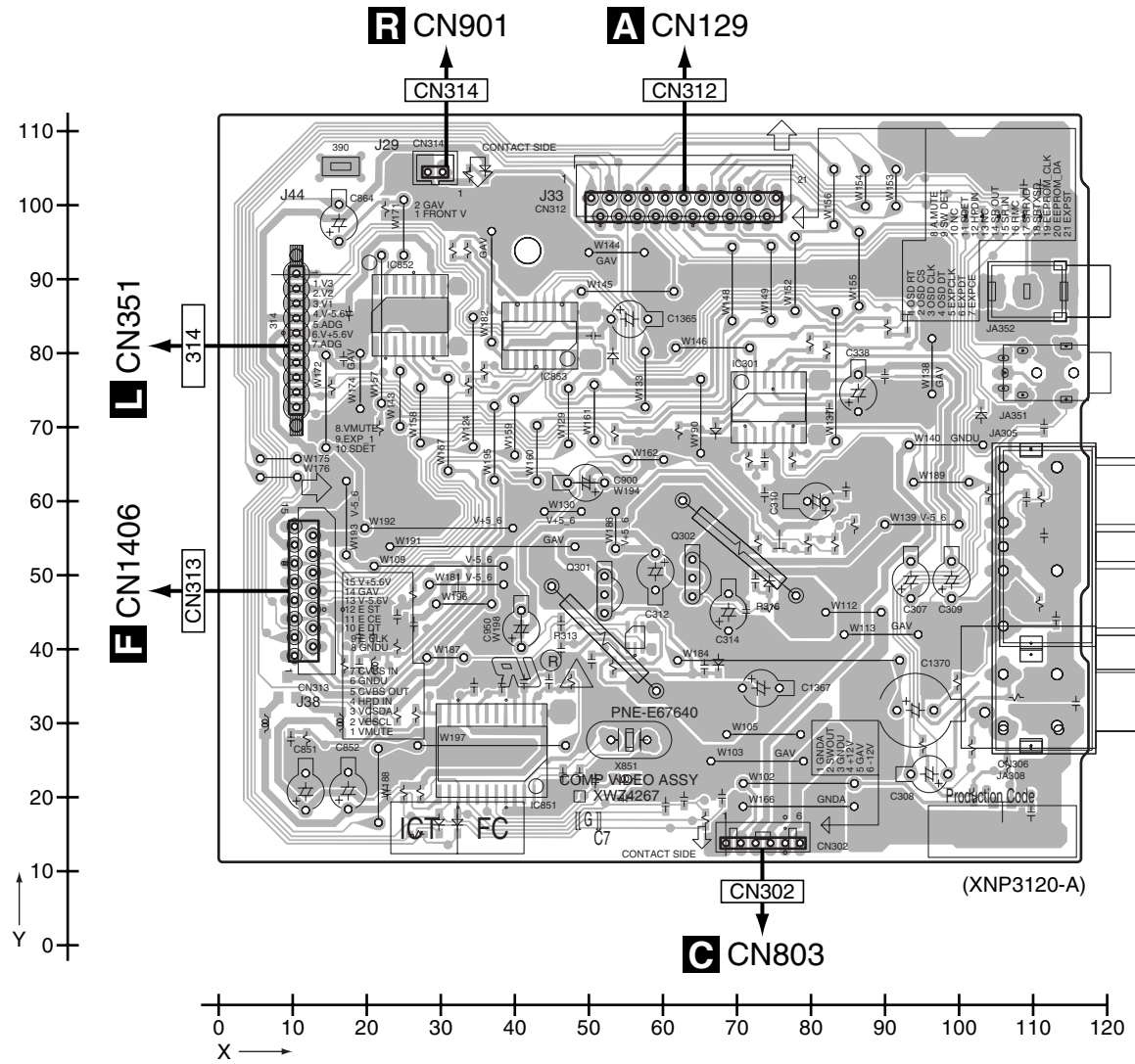
N REGULATOR ASSY

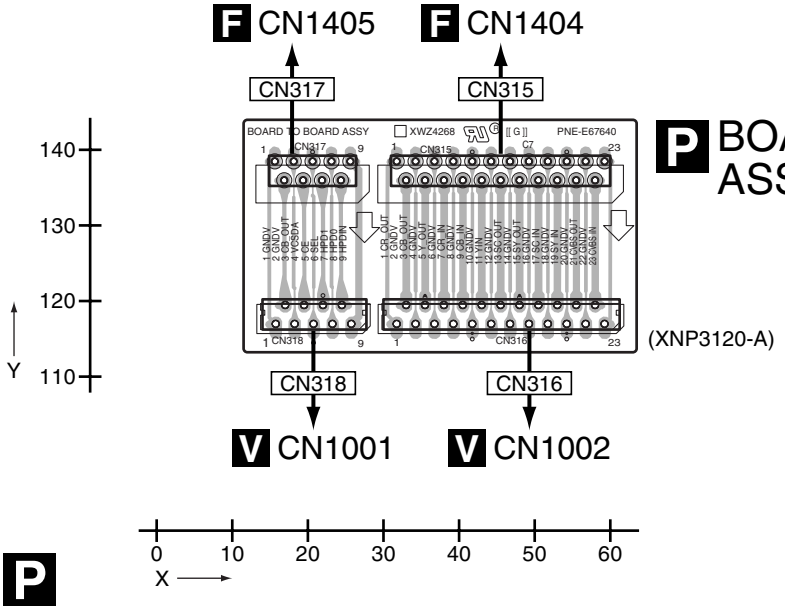
4.12 COMP VIDEO and BOARD TO BOARD ASSYS (VSX-917V ONLY)

SIDE A

O COMP VIDEO ASSY

SIDE A





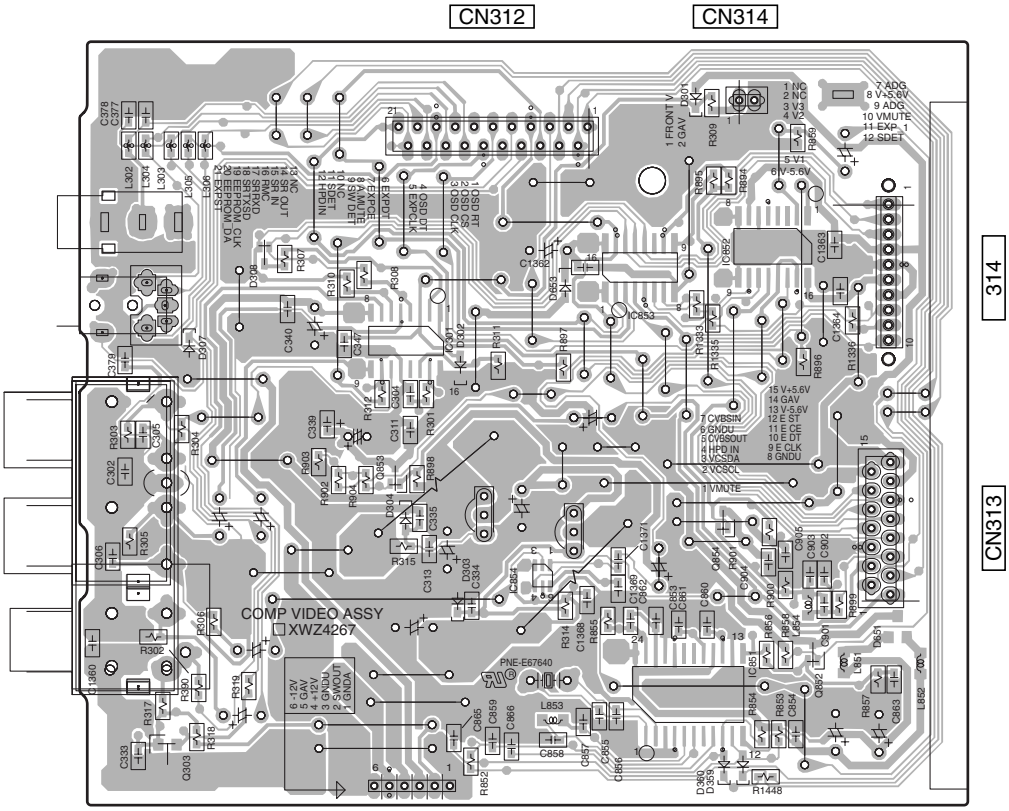
P BOARD TO BOARD ASSY

O **P**

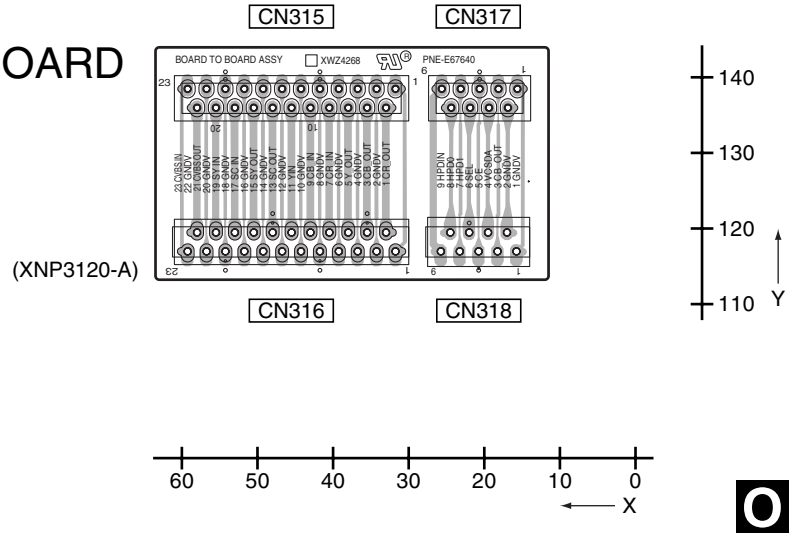
SIDE B

SIDE B

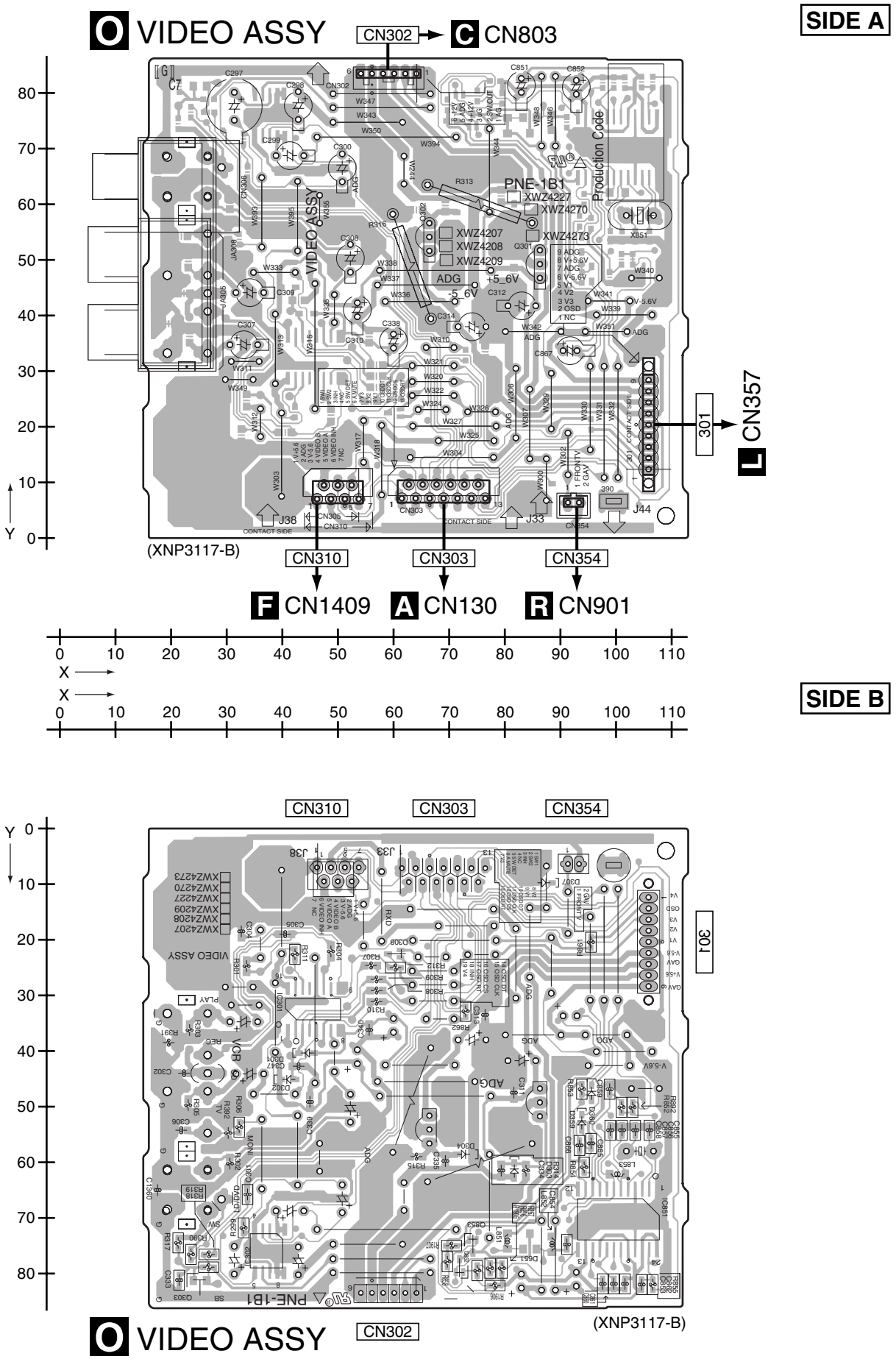
O COMP VIDEO ASSY



P BOARD TO BOARD ASSY



4.13 VIDEO ASSY (VSX-817 ONLY)

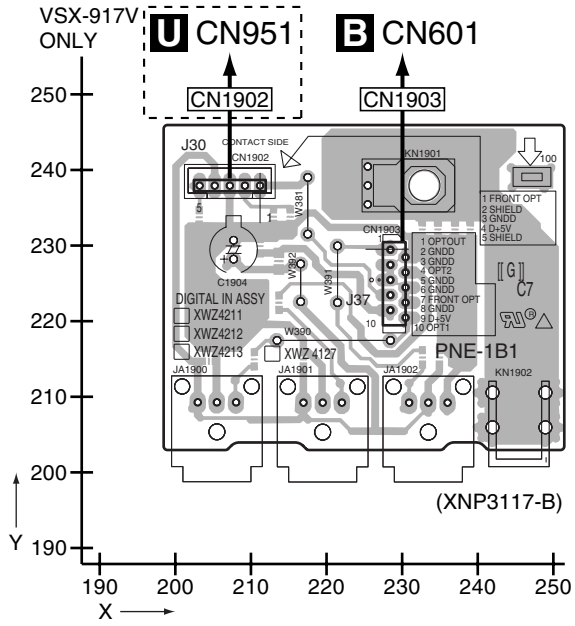


4.14 DIGITAL INPUT and FRONT VIDEO ASSYS

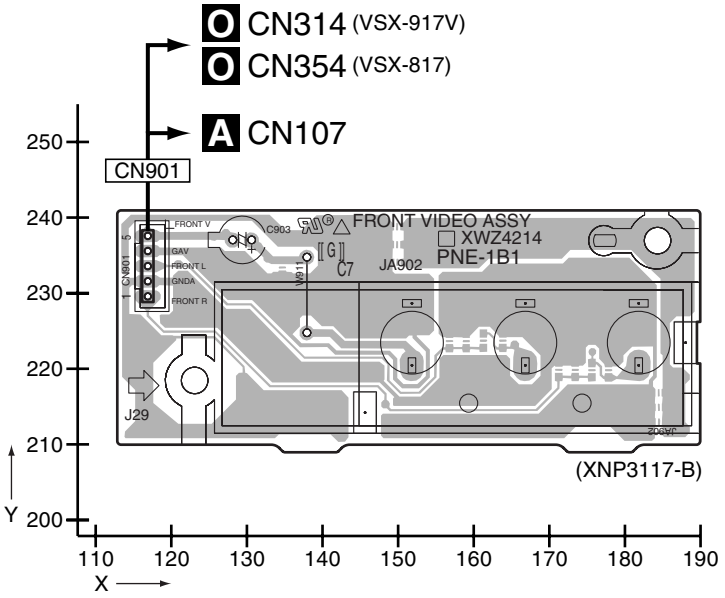
SIDE A

SIDE A

Q DIGITAL INPUT ASSY

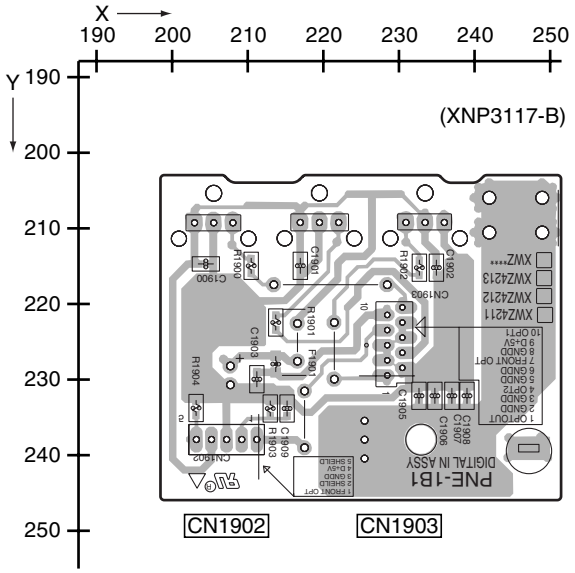


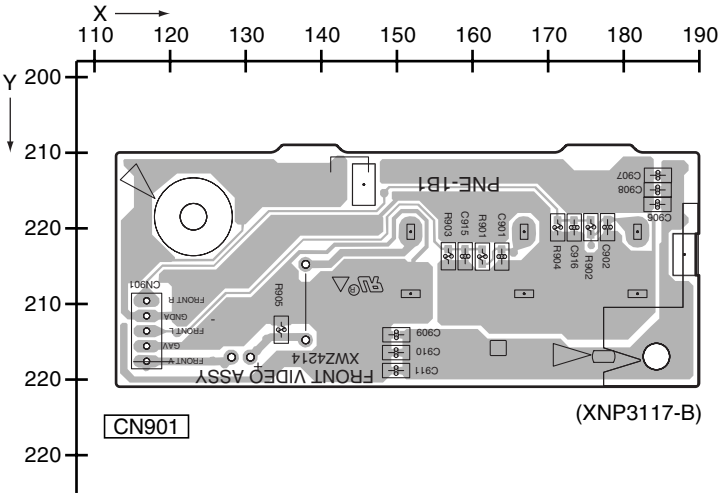
R FRONT VIDEO ASSY



SIDE B

SIDE B





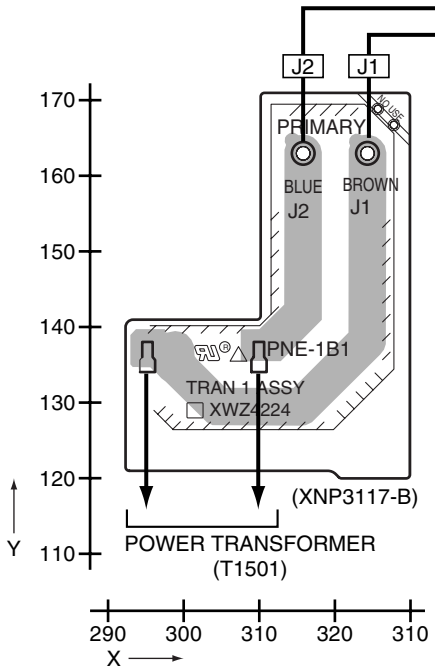
Q DIGITAL INPUT ASSY

R FRONT VIDEO ASSY

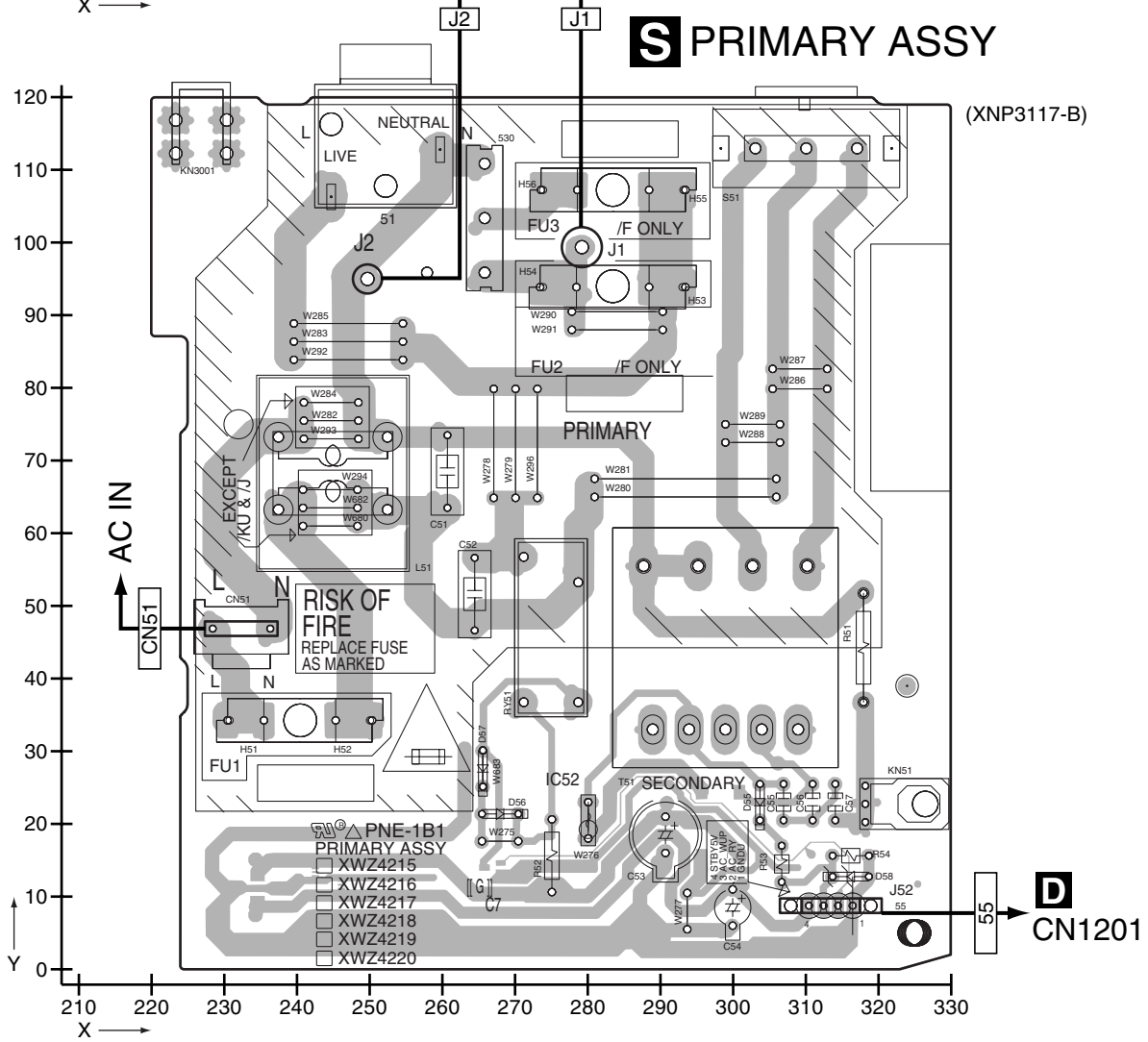
4.15 PRIMARY and TRANS1 ASSYS

SIDE A **SIDE A**

T TRANS1 ASSY



S PRIMARY ASSY

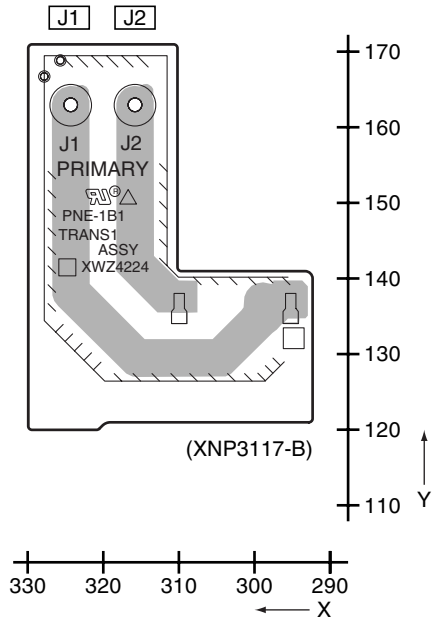


S **T**

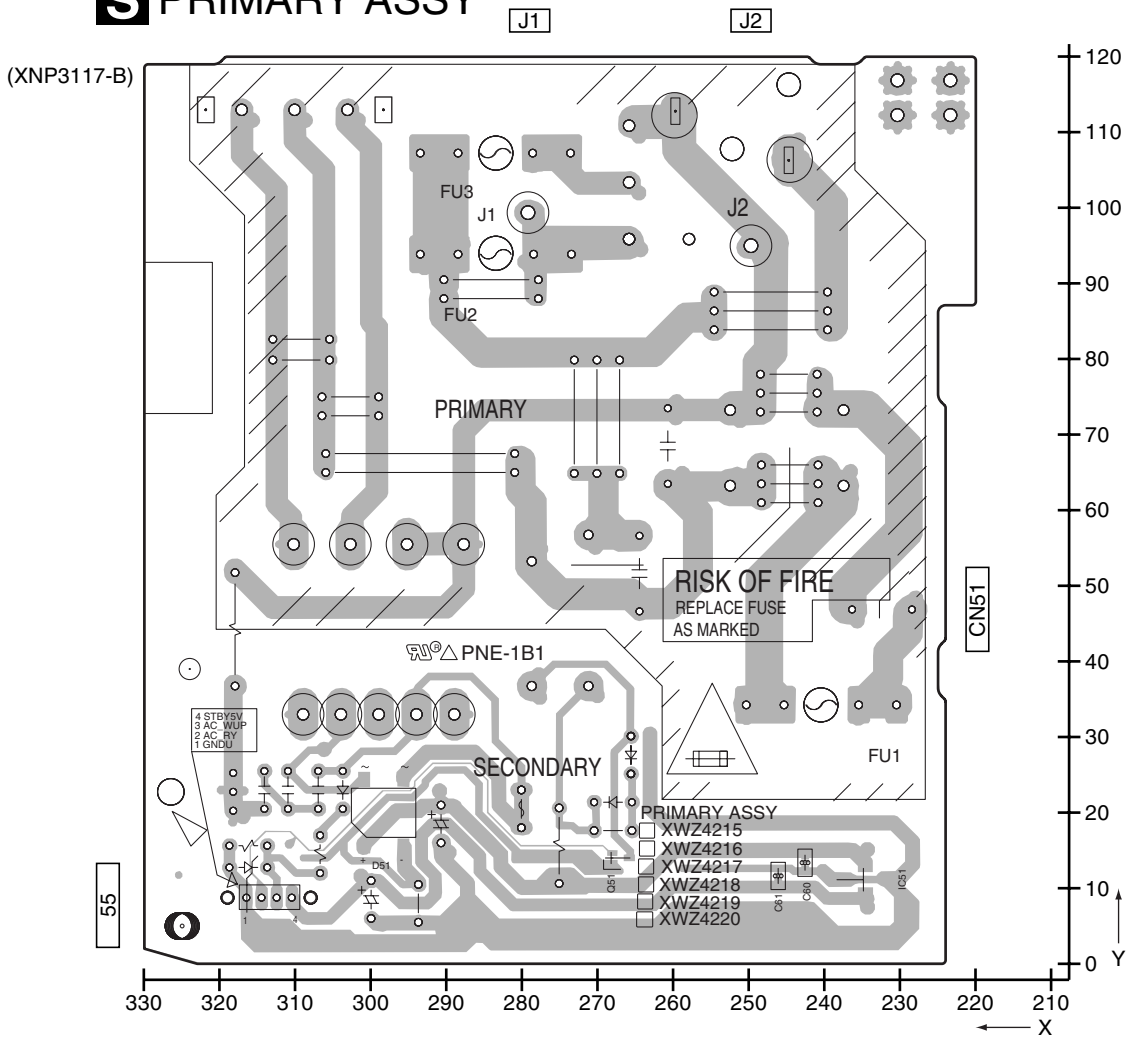
SIDE B

SIDE B

T TRANS1 ASSY



S PRIMARY ASSY

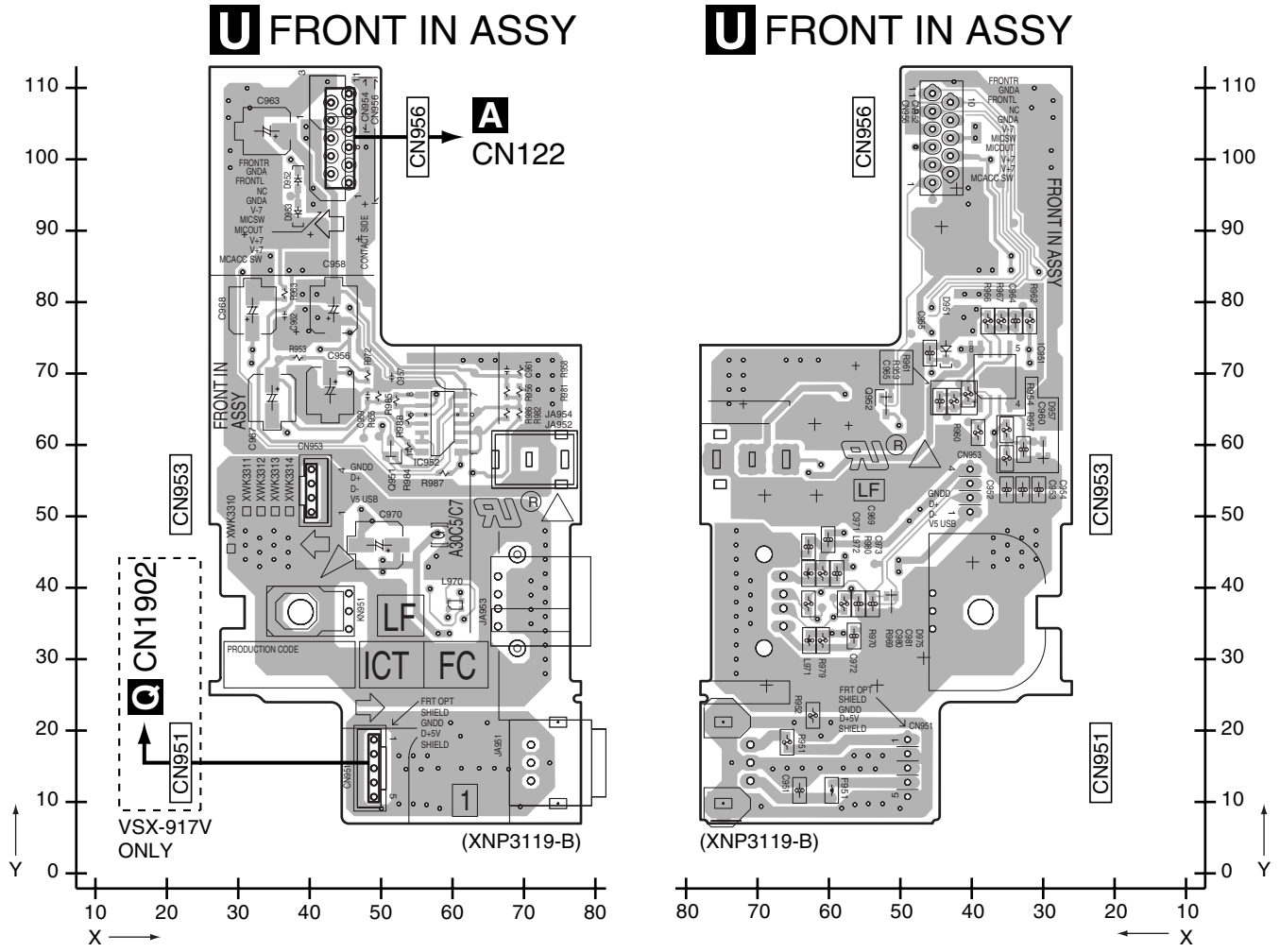


5 6 7 8

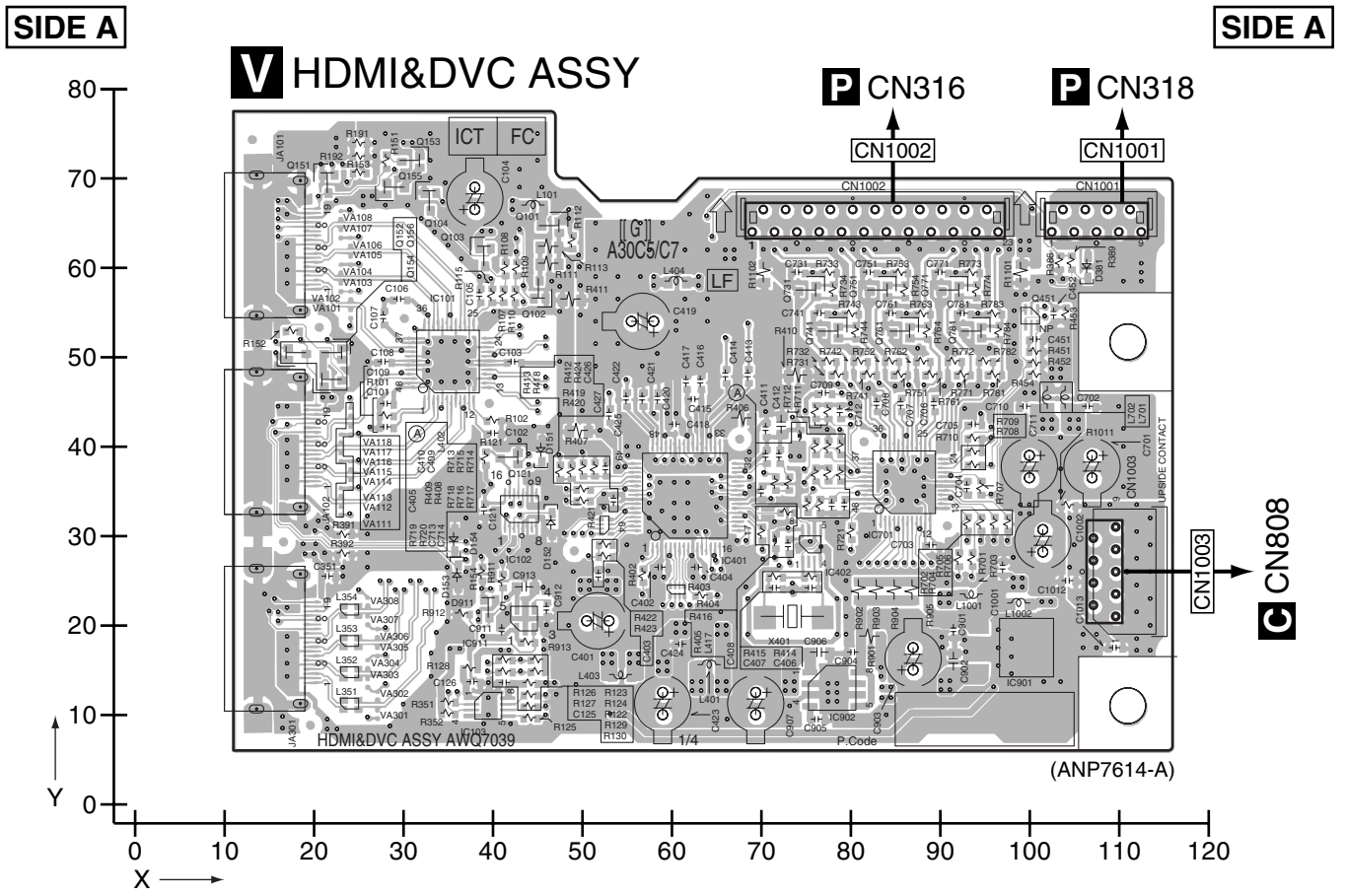
4.16 FRONT IN ASSY

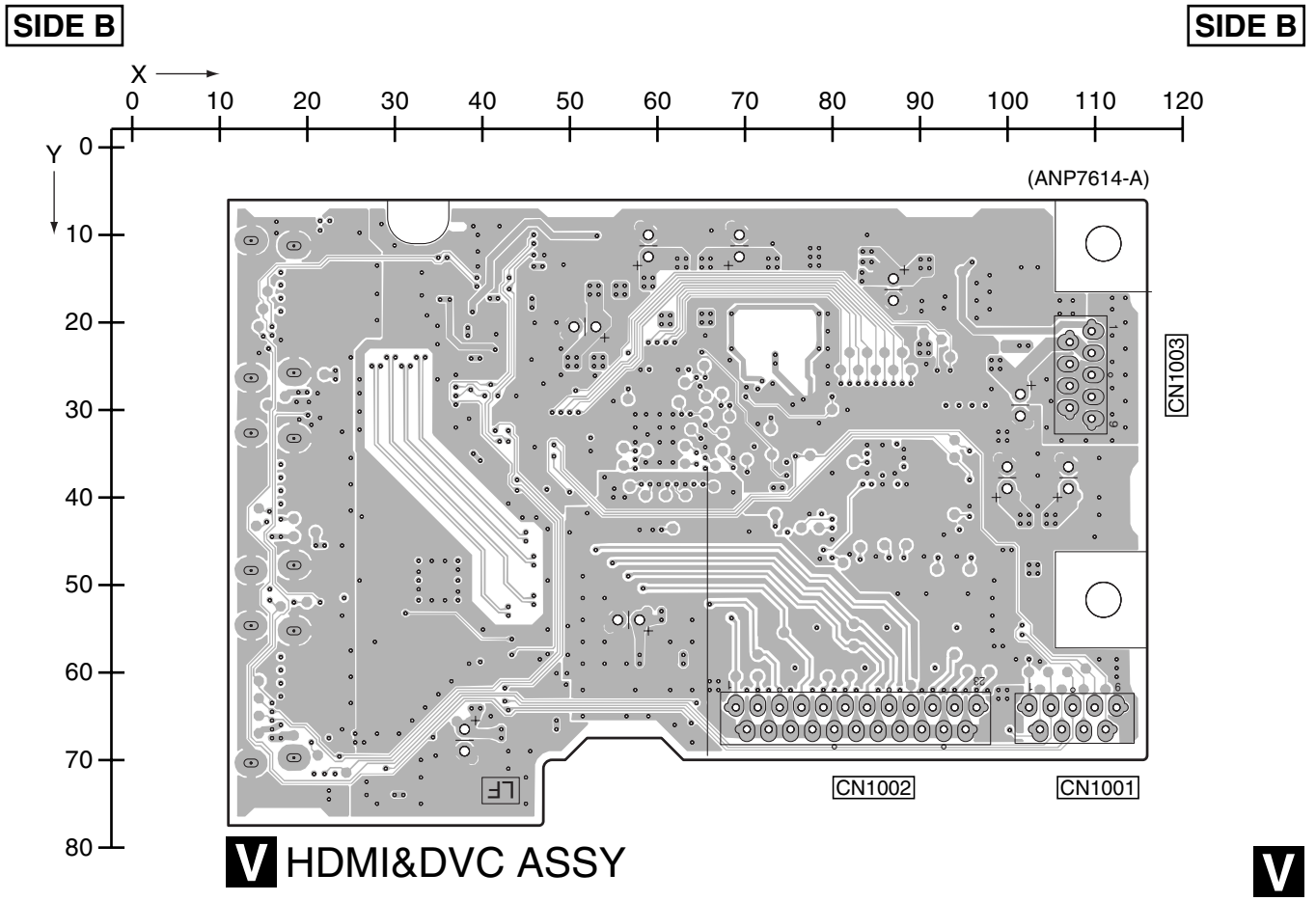
SIDE A

SIDE B



4.17 HDMI&DVC ASSY





5. PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω	*56 x 10¹*	*561*	*RD1/4PU 561 J*
47k Ω	*47 x 10³*	*473*	*RD1/4PU 473 J*
0.5 Ω		*R50*	*RN2H R50 K*
1 Ω		*1R0*	*RS1P 1R0 K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω	*562 x 10¹*	*5621*	*RN1/4PC 5621 F*

- *Meaning of the figures and others in the parentheses in the parts list.*

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

LIST OF ASSEMBLIES

Mark	Symbol and Description	VSX-917V /KUXJ/CA	VSX-817 /KUXJ/CA
	1..MAIN ASSY	XWK3307	XWK3303
	1..DSP ASSY	AWX8809	AWX8809
NSP	1..AMP ASSY	XWK3293	XWK3289
	2..POWER PACK ASSY	XWZ4239	XWZ4235
	2..TRANS2 ASSY	XWZ4245	XWZ4244
	2..TRANS3 ASSY	XWZ4246	XWZ4246
	2..COMPONENT VIDEO ASSY	XWZ4248	XWZ4247
	2..5.1CH INPUT ASSY	XWZ4249	XWZ4249
	2..SIRIUS ASSY	XWZ4251	XWZ4251
	2..BIND ASSY	XWZ4252	XWZ4252
	2..HEAD PHONE ASSY	XWZ4265	XWZ4265
NSP	1..COMPLEX ASSY	XWK3279	XWK3274
	2..FRONT DISPLAY ASSY	XWZ4204	XWZ4203
	2..ROTARY ENCODER ASSY	XWZ4205	XWZ4205
	2..VIDEO ASSY	Not used	XWZ4208
	2..S. VIDEO ASSY	XWZ4228	XWZ4210
	2..DIGITAL INPUT ASSY	XWZ4213	XWZ4212
	2..FRONT VIDEO ASSY	XWZ4214	XWZ4214
	2..PRIMARY ASSY	XWZ4218	XWZ4218
	2..REGULATOR ASSY	XWZ4221	XWZ4222
	2..TRANS1 ASSY	XWZ4224	XWZ4224
	2..TRANS4 ASSY	XWZ4225	XWZ4225
	2..POWER KEY ASSY	XWZ4254	XWZ4254
	1..FRONT IN ASSY	XWK3313	XWK3311
	1..COMPOSITE VIDEO ASSY	XWK3315	Not used
	2..COMP VIDEO ASSY	XWZ4267	Not used
	2..BOARD TO BOARD ASSY	XWZ4268	Not used
	1..HDMI ASSY	AWQ7039	Not used
	1..FM/AM TUNER UNIT	AXX7210	AXX7210

■ CONTRAST OF PCB ASSEMBLIES

A MAIN ASSY

XWK3303 and XWK3307 are constructed the same except for the following:

Mark	Symbol and Description	XWK3307	XWK3303
	IC6001	TC74VHCT125AFTS1	Not used
	D6001	1SS355	Not used
	CN129 CONNECTOR	CKS3386	Not used
	CN130 CONNECTOR	Not used	CKS3378
	R6001, R6002	RS1/16S104J	Not used
	R6004, R6009	RS1/16S101J	Not used
	R6007	RS1/16S102J	Not used
	R6010	RS1/16S182J	Not used
	R9025	RS1/16S103J	RS1/16S100J
	R9045, R9046	RS1/16S101J	RS1/16S471J
	R9048	RS1/16S472J	RS1/16S103J
	R9068	Not used	RS1/16S0R0J
	C6001	CKSRYB104K16	Not used

C POWER PACK ASSY

XWZ4235 and XWZ4239 are constructed the same except for the following:

Mark	Symbol and Description	XWZ4239	XWZ4235
⚠	IC803	BA05FP	NJM78M05DL1A
	Q810	2SD1858X	Not used
	D900	MTZJ7R5(B)	Not used
	CN808 CONNECTOR	CKS3374	Not used
	R900	RS1/16S102J	Not used
	R901	RS1/16S100J	Not used
	C850	CEAT101M10	Not used
	C901	CKSRYB104K16	Not used

D TRANS2 ASSY

XWZ4244 and XWZ4245 are constructed the same except for the following:

Mark	Symbol and Description	XWZ4245	XWZ4244
⚠	IC853 PROTECTOR(7A)	AEK7021	Not used
⚠	IC853 PROTECTOR(5A)	Not used	AEK7019

I FRONT DISPLAY ASSY

XWZ4203 and XWZ4204 are constructed the same except for the following:

Mark	Symbol and Description	XWZ4204	XWZ4203
	Q441	RT1N241M	Not used
	D404, D405	1SS355	Not used
	R404	RS1/16S472J	Not used
	R430	Not used	RS1/16S0R0J

L S. VIDEO ASSY

XWZ4210 and XWZ4228 are constructed the same except for the following:

Mark	Symbol and Description	XWZ4228	XWZ4210
	IC355	LA7213	Not used
	Q101, Q102, Q103, Q104	2SC4081	Not used
	Q359	RT1N241M	Not used
	D365, D380	1SS355	Not used
	L100, L101	LCYA120J2520	Not used
	CN351 10P JUMPER CONNECTOR	52147-1010	Not used
	CN356 CONNECTOR	CKS3372	Not used
	CN357 9P JUMPER CONNECTOR	Not used	52147-0910
	R384	Not used	RS1/16S0R0J

Mark	Symbol and Description	XWZ4228	XWZ4210
	R385	Not used	RS1/16S102J
	R393	RS1/16S331J	Not used
	R394	RS1/16S224J	Not used
	R395	RS1/16S472J	Not used
	R396	RS1/16S223J	Not used
	R822	RS1/16S332J	Not used
	R823	RS1/16S103J	Not used
	R824, R827, R832, R833	RS1/16S102J	Not used
	R830, R831	RS1/16S561J	Not used
	C397	CEAT3R3M50	Not used
	C398, C399	CEAT101M10	Not used
	C820	Not used	CKSRYB104K25
	C1916, C1917	CCSRCH120J50	Not used
	C1918, C1919	CCSRCJ3R0C50	Not used
	C1920, C1921	CCSRCH330J50	Not used

N REGULATOR ASSY

XWZ4222 and XWZ4221 are constructed the same except for the following:

Mark	Symbol and Description	XWZ4221	XWZ4222
⚠	IC807	Not used	TA7805S
⚠	IC808	BA50BC0T	Not used
⚠	IC809	NJM2389F	Not used
	D810, D814	MTZJ6R2	Not used
	D813	Not used	MTZJ6R2
	R802	Not used	RS2LMF221J
	R809	RS1/16S102J	Not used
	R810	RS1/16S302J	Not used
	R818	Not used	RS1/16S561J
	R819	Not used	RS1/16S220J
	R820	RS1/16S151J	Not used
	C809	CEATR33M50	Not used
	C810	CEAT101M10	Not used
	C816	Not used	CEAT101M10
	C817	Not used	CKSRYB103K25
	C818	CKSRYB103K25	Not used
	C819	CEAT101M10	Not used

Q DIGITAL INPUT ASSY

XWZ4212 and XWZ4213 are constructed the same except for the following:

Mark	Symbol and Description	XWZ4213	XWZ4212
	JA1902 OPT. LINK IN	GP1FAV51TK0F	Not used
	R1902	RS1/16S101J	Not used
	C1902	CKSRYB104K25	Not used

U FRONT IN ASSY

XWK3311 and XWK3313 are constructed the same except for the following:

Mark	Symbol and Description	XWK3313	XWK3311
	CN951 KR CONNECTOR	B5B-PH-K-S	Not used
	JA951 OPT. LINK IN	GP1FMV51RK0F	Not used

■ PCB PARTS LIST FOR VSX-917V/KUXJ/CA UNLESS OTHER WISE NOTED

Mark	No.	Description	Part No.
		AMP ASSY	
		MISCELLANEOUS	
J	6	BOARD IN WIRE	DB230ND0
J	606	BOARD IN WIRE	DB621ND0
J	607	BOARD IN WIRE	DB118ND0
		COMPLEX ASSY	
		MISCELLANEOUS	
J	41	JUMPER WIRE	D15A03-100-2651
J	42	JUMPER WIRE	D15A07-125-2651
		A MAIN ASSY	
		MISCELLANEOUS	
IC	103 (A,198,72)	DUAL OP-AMP	NJM4565MD
IC	104 (A,198,56)	DUAL OP-AMP	NJM4565MD
IC	105 (A,198,87)	DUAL OP-AMP	NJM4565MD
IC	106 (A,198,41)	DUAL OP-AMP	NJM4565MD
IC	107 (A,216,88)	DUAL OP-AMP	NJM4565MD
IC	108 (B,255,64)	8CH E-VOL	R2S15205FP(P)
IC	110 (A,237,73)	IC	TC4066BFN
IC	310 (A,142,42)	DUAL OP-AMP	NJM4565MD
IC	311 (A,152,60)	DUAL OP-AMP	NJM4565MD
IC	312 (A,142,78)	DUAL OP-AMP	NJM4565MD
IC	315 (A,160,90)	DUAL OP-AMP	NJM4565MD
IC	6001(A,135,21)	IC	TC74VHCT125AFTS1
IC	6004(A,91,22)	IC	TC7S04F
IC	9001(B,82,64)	CPU	PEG375B8
IC	9002(A,104,42)	EEPROM	BR24L16FV-W
IC	9003(A,90,16)	IC	TC74VHCT125AFTS1
Q	231 (A,225,69)	DIGITAL TR(SC-70)	RT1P241M
Q	232 (A,229,69)	TRANSISTOR	RT1N241M
Q	248 (A,79,108)	TRANSISTOR	2SC4081
Q	249 (A,83,104)	TRANSISTOR	RT1N241M
Q	250 (A,87,105)	TRANSISTOR	2SC4081
Q	252 (A,68,105)	TRANSISTOR	2SD1858X
Q	253 (A,75,108)	TRANSISTOR	RT1N241M
Q	254 (A,72,98)	DIGITAL TR(SC-70)	RT1P241M
Q	255 (A,75,98)	TRANSISTOR	RT1N241M
Q	257 (A,90,105)	TRANSISTOR	2SA1576A
Q	361 (A,166,78)	TRANSISTOR	2SC5938A
Q	9001(A,125,87)	DIGITAL TR(SC-70)	RT1N431M
Q	9002(A,66,80)	DIGITAL TR(SC-70)	RT1P241M
Q	9003(A,65,75)	DIGITAL TR(SC-70)	RT1P241M
Q	9007(A,69,85)	TRANSISTOR	DTC143TK
Q	9064(A,59,80)	DIGITAL TR(SC-70)	RT1P241M
Q	9065(A,55,78)	TRANSISTOR	UMD2N
D	103 (B,173,35)	DIODE	DAN217U
D	105 (B,163,37)	DIODE	DAN217U
D	107 (B,166,37)	DIODE	DAN217U
D	253 (A,70,114)	DIODE	UDZS27(B)
D	254 (A,92,102)	DIODE	UDZS5R1(B)
D	311 (B,259,93)	DIODE	1SS355
D	312 (B,268,93)	DIODE	1SS355
D	331 (B,260,87)	DIODE	UDZS6R8(B)
D	332 (B,263,87)	DIODE	UDZS6R8(B)

Mark	No.	Description	Part No.
D	6001(A,149,22)	DIODE	1SS355
D	9006(B,99,89)	DIODE	DAN217U
D	9007(B,91,89)	DIODE	DAN217U
D	9010(A,128,88)	DIODE	1SS355
D	9011(A,60,75)	DIODE	DAN202U
D	9064(A,58,75)	DIODE	DAP202U
D	9065(A,63,80)	DIODE	DAP202U
D	9068(A,53,81)	DIODE	1SS355
L	101 (B,260,98)	CHIP SOLID INDUCTOR	QTL1013
L	102 (B,265,97)	CHIP SOLID INDUCTOR	QTL1013
L	5002(A,257,104)	CHIP SOLID INDUCTOR	QTL1013
L	9001(A,124,102)	CHIP SOLID INDUCTOR	ATL7002
L	9002(A,120,103)	CHIP SOLID INDUCTOR	ATL7002
L	9003(A,106,98)	RADIAL INDUCTOR	LFCA2R2J
X	9001(A,96,53)	CERAMIC RESONATOR (15.7 MHz)	XSS3004
CN	101 (A,41,27)	CONNECTOR	CKS3382
CN	102 (A,113,63)	CONNECTOR	52045-1045
CN	103 (A,227,17)	11P CONNECTOR	52044-1145
CN	105 (A,266,34)	CONNECTOR	CKS3372
CN	106 (A,101,18)	12P CONNECTOR	VKN1243
CN	107 (A,39,109)	CONNECTOR POST	B3B-PH
CN	109 (A,230,113)	19P SOCKET	XKP3054
CN	111 (A,274,113)	21P SOCKET	XKP3091
CN	112 (A,91,41)	CONNECTOR	CKS3382
CN	114 (A,189,113)	21P SOCKET	XKP3091
CN	122 (A,41,55)	CONNECTOR	CKS3376
CN	129 (A,247,13)	CONNECTOR	CKS3386
CN	132 (A,208,17)	CONNECTOR	CKS3374
CN	141	8P PIN JACK	XKB3064
CN	142	8P PIN JACK	XKB3067
CN	251 (A,39,92)	3P JUMPER CONNECTOR	52147-0310
CN	252 (A,37,77)	3P TOP POST	B3B-EH
	102	PCB BINDER	VEF1040
	101	PCB BINDER	VEF1040
		RESISTORS	
R	101 (B,282,19)		RS1/16S331J
R	102 (B,293,12)		RS1/16S331J
R	103 (B,283,62)		RS1/16S222J
R	104 (B,283,52)		RS1/16S222J
R	105 (B,283,48)		RS1/16S331J
R	106 (B,293,40)		RS1/16S331J
R	107 (B,283,88)		RS1/16S331J
R	108 (B,293,81)		RS1/16S331J
R	109 (B,283,75)		RS1/16S331J
R	110 (B,293,68)		RS1/16S331J
R	111 (B,283,112)		RS1/16S222J
R	112 (B,283,106)		RS1/16S222J
R	113 (B,283,101)		RS1/16S331J
R	114 (B,293,96)		RS1/16S331J
R	129 (B,283,34)		RS1/16S331J
R	130 (B,283,25)		RS1/16S331J
R	145 (A,71,73)		RS1/16S102J
R	146 (A,71,74)		RS1/16S102J
R	147 (B,233,67)		RS1/16S472J
R	148 (B,228,62)		RS1/16S472J
R	149 (A,259,45)		RS1/16S104J
R	180 (B,278,97)		RS1/16S0R0J

Mark	No.		Description	Part No.
	R	181	(B,273,78)	RS1/16S0R0J
	R	182	(B,275,75)	RS1/16S0R0J
	R	183	(B,276,67)	RS1/16S0R0J
	R	201	(A,189,85)	RS1/16S473J
	R	202	(A,189,90)	RS1/16S473J
	R	205	(B,189,85)	RS1/16S392J
	R	206	(B,189,91)	RS1/16S392J
	R	207	(B,191,85)	RS1/16S392J
	R	208	(B,191,91)	RS1/16S392J
	R	209	(B,198,85)	RS1/16S392J
	R	210	(B,198,91)	RS1/16S392J
	R	211	(B,200,85)	RS1/16S332J
	R	212	(B,200,91)	RS1/16S332J
	R	221	(B,220,84)	RS1/16S472J
	R	222	(B,219,91)	RS1/16S472J
	R	223	(A,242,78)	RS1/16S472J
	R	224	(A,236,78)	RS1/16S472J
	R	225	(B,225,84)	RS1/16S392J
	R	226	(B,225,91)	RS1/16S392J
	R	231	(A,229,72)	RS1/16S104J
	R	233	(A,231,91)	RS1/16S474J
	R	234	(A,231,84)	RS1/16S474J
	R	237	(A,237,88)	RS1/16S122J
	R	238	(A,236,80)	RS1/16S122J
	R	241	(A,190,69)	RS1/16S473J
	R	242	(A,190,74)	RS1/16S473J
	R	245	(B,188,69)	RS1/16S332J
	R	246	(B,188,75)	RS1/16S332J
	R	247	(B,190,69)	RS1/16S332J
	R	248	(B,190,75)	RS1/16S332J
	R	249	(B,197,69)	RS1/16S332J
	R	250	(B,197,75)	RS1/16S332J
	R	251	(B,199,69)	RS1/16S182J
	R	252	(B,199,75)	RS1/16S182J
	R	261	(A,189,53)	RS1/16S473J
	R	262	(A,189,59)	RS1/16S473J
	R	264	(B,186,60)	RS1/16S392J
	R	265	(B,188,53)	RS1/16S332J
	R	266	(B,188,60)	RS1/16S472J
	R	267	(B,190,53)	RS1/16S332J
	R	268	(B,190,60)	RS1/16S123J
	R	269	(B,197,53)	RS1/16S332J
	R	270	(B,197,60)	RS1/16S122J
	R	271	(B,199,53)	RS1/16S182J
	R	272	(B,199,60)	RS1/16S272J
	R	274	(B,202,60)	RS1/16S271J
	R	280	(A,65,112)	RS1/16S0R0J
	R	281	(A,188,44)	RS1/16S473J
	R	282	(A,188,38)	RS1/16S473J
	R	285	(B,188,45)	RS1/16S332J
	R	286	(B,188,38)	RS1/16S332J
	R	287	(B,191,45)	RS1/16S332J
	R	288	(B,191,38)	RS1/16S332J
	R	289	(B,197,45)	RS1/16S332J
	R	290	(B,197,38)	RS1/16S332J
	R	291	(B,200,45)	RS1/16S182J
	R	292	(B,199,39)	RS1/16S182J
	R	303	(B,156,37)	RS1/16S101J
	R	304	(B,155,43)	RS1/16S101J
	R	305	(B,160,49)	RS1/16S101J
	R	306	(B,164,61)	RS1/16S101J
	R	307	(B,165,68)	RS1/16S101J
	R	308	(B,171,72)	RS1/16S101J
	R	311	(A,258,102)	METAL OXIDE RESISTOR RS1LMF101J
	R	312	(A,266,102)	METAL OXIDE RESISTOR RS1LMF101J
	R	437	(A,81,108)	RS1/16S103J
	R	438	(A,79,112)	RS1/16S103J
	R	439	(A,80,112)	RS1/16S103J
	R	440	(A,87,108)	RS1/16S103J
	R	443	(A,63,104)	RS1/16S471J
	R	445	(A,73,107)	RS1/16S223J
	R	448	(A,90,102)	RS1/16S104J
	R	449	(A,83,108)	RS1/16S822J
	R	453	(A,147,36)	RS1/16S362J
	R	454	(A,142,48)	RS1/16S362J
	R	457	(A,141,36)	RS1/16S153J
	R	458	(A,140,47)	RS1/16S153J
	R	459	(B,133,38)	RS1/16S103J
	R	460	(B,133,43)	RS1/16S103J
	R	464	(A,77,99)	RS1/16S0R0J
	R	473	(A,151,53)	RS1/16S362J
	R	474	(A,152,66)	RS1/16S362J
	R	477	(A,149,52)	RS1/16S153J
	R	478	(A,150,65)	RS1/16S153J
	R	479	(B,142,57)	RS1/16S103J
	R	480	(B,142,62)	RS1/16S103J
	R	484	(A,165,71)	RS1/16S104J
	R	485	(A,157,80)	RS1/16S472J
	R	493	(A,141,71)	RS1/16S362J
	R	494	(A,141,84)	RS1/16S362J
	R	497	(A,139,69)	RS1/16S153J
	R	498	(A,139,83)	RS1/16S153J
	R	499	(B,133,72)	RS1/16S103J
	R	500	(B,133,79)	RS1/16S103J
	R	502	(B,144,80)	RS1/16S204J
	R	504	(B,171,86)	RS1/16S222J
	R	505	(B,170,92)	RS1/16S222J
	R	512	(A,159,83)	RS1/16S362J
	R	513	(A,159,96)	RS1/16S362J
	R	514	(A,157,83)	RS1/16S153J
	R	515	(A,157,97)	RS1/16S153J
	R	516	(B,150,89)	RS1/16S103J
	R	517	(B,150,96)	RS1/16S103J
	R	551	(A,85,108)	RS1/16S822J
	R	6001	(A,132,18)	RS1/16S104J
	R	6002	(A,139,24)	RS1/16S104J
	R	6004	(A,151,22)	RS1/16S101J
	R	6007	(B,128,14)	RS1/16S102J
	R	6009	(A,130,23)	RS1/16S101J
	R	6010	(A,147,23)	RS1/16S182J
	R	9001	(B,94,54)	RS1/16S0R0J
	R	9002	(A,129,89)	RS1/16S473J
	R	9003	(B,92,54)	RS1/16S0R0J
	R	9006	(B,103,89)	RS1/16S474J
	R	9007	(B,93,89)	RS1/16S474J
	R	9008	(A,93,107)	RS1/16S221J
	R	9009	(A,65,85)	RS1/16S473J
	R	9010	(B,115,45)	RS1/16S512J
	R	9011	(A,63,76)	RS1/16S102J
	R	9012	(A,63,73)	RS1/16S0R0J

Mark	No.	Description	Part No.
R	9013	(B,112,45)	RS1/16S471J
R	9014	(B,104,54)	RS1/16S471J
R	9015	(B,102,54)	RS1/16S471J
R	9016	(B,100,54)	RS1/16S471J
R	9017	(B,98,54)	RS1/16S471J
R	9018	(B,96,54)	RS1/16S471J
R	9019	(B,98,76)	RS1/16S471J
R	9020	(B,99,76)	RS1/16S471J
R	9021	(B,101,76)	RS1/16S471J
R	9022	(B,103,76)	RS1/16S471J
R	9023	(B,112,67)	RS1/16S103J
R	9024	(B,110,67)	RS1/16S103J
R	9025	(B,103,67)	RS1/16S103J
R	9028	(B,119,45)	RS1/16S104J
R	9030	(A,68,79)	RS1/16S470J
R	9031	(B,69,48)	RS1/16S104J
R	9032	(A,66,59)	RS1/16S104J
R	9033	(B,89,48)	RS1/16S104J
R	9036	(A,88,89)	RS1/16S221J
R	9037	(A,124,99)	RS1/16S104J
R	9039	(A,87,57)	RS1/16S104J
R	9041	(B,117,45)	RS1/16S104J
R	9042	(B,83,81)	RS1/16S103J
R	9043	(B,81,81)	RS1/16S103J
R	9044	(B,79,81)	RS1/16S103J
R	9045	(A,97,46)	RS1/16S101J
R	9046	(A,107,46)	RS1/16S101J
R	9047	(A,98,46)	RS1/16S103J
R	9048	(A,98,43)	RS1/16S472J
R	9049	(A,114,72)	RS1/16S221J
R	9050	(A,109,68)	RS1/16S221J
R	9051	(A,99,30)	RS1/16S221J
R	9052	(A,107,13)	RS1/16S221J
R	9053	(A,104,29)	RS1/16S221J
R	9054	(A,105,26)	RS1/16S221J
R	9060	(B,98,68)	RS1/16S473J
R	9062	(B,87,48)	RS1/16S471J
R	9064	(A,54,74)	RS1/16S103J
R	9065	(A,56,74)	RS1/16S103J
R	9066	(A,62,72)	RS1/16S103J
R	9067	(A,57,83)	RS1/16S103J
R	9080	(A,102,25)	RS1/16S103J
R	9081	(A,120,72)	RS1/16S221J
R	9082	(A,122,69)	RS1/16S274J
R	9083	(A,84,19)	RS1/16S101J
R	9084	(A,104,13)	RS1/16S101J
R	9085	(A,93,13)	RS1/16S101J
R	9087	(A,98,16)	RS1/16S101J
R	9088	(A,85,15)	RS1/16S101J

CAPACITORS

C	115	(B,262,98)	CKSRYB103K50
C	116	(B,267,97)	CKSRYB103K50
C	117	(B,283,116)	CCSRCH220J50
C	118	(B,285,109)	CCSRCH220J50
C	121	(A,280,34)	CEAT100M50
C	122	(A,280,25)	CEAT100M50
C	123	(A,280,19)	CEAT100M50
C	124	(A,280,11)	CEAT100M50
C	125	(A,280,62)	CEAT100M50
C	126	(A,280,53)	CEAT100M50
C	127	(A,280,47)	CEAT100M50
C	128	(A,280,40)	CEAT100M50
C	131	(A,280,87)	CEAT100M50
C	132	(A,280,80)	CEAT100M50
C	133	(A,280,74)	CEAT100M50
C	134	(A,280,67)	CEAT100M50
C	135	(A,280,114)	CEAT100M50
C	136	(A,280,106)	CEAT100M50
C	137	(A,280,101)	CEAT100M50
C	138	(A,280,93)	CEAT100M50
C	139	(A,53,100)	CEAT100M50
C	140	(A,53,95)	CEAT100M50
C	141	(A,256,82)	CKSRYB104K50
C	145	(B,256,81)	CCSRCH101J50
C	146	(B,258,81)	CCSRCH101J50
C	147	(B,253,81)	CKSRYB103K50
C	148	(B,238,67)	CKSRYB223K25
C	149	(B,235,67)	CKSRYB473K25
C	150	(B,231,67)	CKSQYB154K16
C	151	(B,45,62)	CKSRYB103K50
C	152	(B,230,62)	CKSRYB223K25
C	153	(B,234,62)	CKSRYB473K25
C	154	(B,232,62)	CKSQYB154K16
C	155	(A,226,62)	CEAT101M10
C	156	(A,229,56)	CEAT101M10
C	157	(A,236,56)	CEAT101M10
C	158	(A,232,50)	CEAT101M10
C	159	(A,241,50)	CEAT101M10
C	160	(A,234,44)	CEAT101M10
C	161	(A,241,44)	CEAT101M10
C	162	(A,248,44)	CEAT101M10
C	165	(A,240,86)	CEAT1R0M50
C	166	(A,248,86)	CEAT1R0M50
C	179	(B,294,76)	CKSRYB103K50
C	180	(A,277,19)	CKSRYB103K50
C	199	(A,281,50)	CKSRYB103K50
C	201	(A,183,85)	CEAT2R2M50
C	202	(A,184,92)	CEAT2R2M50
C	205	(A,193,85)	CCSRCH331J50
C	206	(A,194,90)	CCSRCH331J50
C	207	(B,193,85)	CCSRCH331J50
C	208	(B,193,91)	CCSRCH331J50
C	213	(A,223,84)	CEAT100M50
C	214	(A,223,90)	CEAT100M50
C	217	(A,202,85)	CKSRYB103K50
C	218	(A,202,90)	CKSRYB103K50
C	219	(A,221,87)	CKSRYB104K16
C	220	(A,210,93)	CKSRYB104K16
C	221	(A,230,75)	CKSRYB103K50
C	222	(A,243,70)	CKSRYB103K50
C	241	(A,183,70)	CEAT2R2M50
C	242	(A,183,77)	CEAT2R2M50
C	245	(A,194,69)	CCSRCH331J50
C	246	(A,194,74)	CCSRCH331J50
C	247	(B,193,69)	CCSRCH331J50
C	248	(B,193,75)	CCSRCH331J50
C	249	(A,205,69)	CEAT100M50
C	250	(A,205,75)	CEAT100M50
C	251	(A,204,65)	CKSRYB103K50

Mark	No.		Description	Part No.
	C 252	(A,211,78)		CKSRYB103K50
	C 261	(A,183,54)		CEAT2R2M50
	C 262	(A,183,62)		CEAT2R2M50
	C 264	(A,191,59)		CCSRCH331J50
	C 265	(A,194,53)		CCSRCH331J50
	C 266	(A,194,59)		CCSRCH221J50
	C 267	(B,193,53)		CCSRCH331J50
	C 268	(B,193,60)		CCSRCH101J50
	C 269	(A,205,54)		CEAT100M50
	C 270	(A,205,60)		CEAT100M50
	C 271	(A,203,51)		CKSRYB103K50
	C 272	(A,210,64)		CKSRYB103K50
	C 281	(A,183,46)		CEAT2R2M50
	C 282	(A,184,39)		CEAT2R2M50
	C 285	(A,194,44)		CCSRCH331J50
	C 286	(A,194,38)		CCSRCH331J50
	C 287	(B,193,45)		CCSRCH331J50
	C 288	(B,193,38)		CCSRCH331J50
	C 289	(A,205,44)		CEAT100M50
	C 290	(A,206,38)		CEAT100M50
	C 291	(A,216,39)		CKSRYB103K50
	C 292	(A,216,48)		CKSRYB103K50
	C 323	(A,146,36)		CCSRCH101J50
	C 324	(A,140,49)		CCSRCH101J50
	C 325	(A,136,39)	ELECT. CAPACITOR	CEAT220M50
	C 326	(A,136,46)	ELECT. CAPACITOR	CEAT220M50
	C 327	(A,132,42)		CKSRYB103K50
	C 328	(A,132,39)		CKSRYB103K50
	C 333	(A,255,93)		CEAT101M10
	C 334	(A,268,81)		CEAT101M10
	C 343	(A,149,51)		CCSRCH101J50
	C 344	(A,150,66)		CCSRCH101J50
	C 345	(A,145,56)	ELECT. CAPACITOR	CEAT220M50
	C 346	(A,145,63)	ELECT. CAPACITOR	CEAT220M50
	C 347	(A,140,64)		CKSRYB103K50
	C 348	(A,141,58)		CKSRYB103K50
	C 362	(A,169,70)		CEAT100M50
	C 363	(A,139,68)		CCSRCH101J50
	C 364	(A,139,84)		CKSRYB472K50
	C 365	(A,136,73)	ELECT. CAPACITOR	CEAT220M50
	C 366	(A,136,80)	ELECT. CAPACITOR	CEANP4R7M50
	C 367	(A,135,88)		CKSRYB103K50
	C 368	(A,147,75)		CKSRYB103K50
	C 370	(A,161,74)		CEAT4R7M50
	C 386	(A,157,84)		CCSRCH101J50
	C 387	(A,157,95)		CCSRCH101J50
	C 388	(A,153,90)	ELECT. CAPACITOR	CEAT220M50
	C 389	(A,153,97)	ELECT. CAPACITOR	CEAT220M50
	C 390	(A,164,88)		CKSRYB103K50
	C 392	(B,91,95)		CKSRYB102K50
	C 393	(A,156,92)		CKSRYB103K50
	C 1031	(A,286,65)		CCSRCH220J50
	C 1041	(B,287,55)		CCSRCH220J50
	C 5001	(B,230,10)		CKSRYB102K50
	C 5002	(B,232,10)		CKSRYB103K50
	C 5003	(B,234,10)		CKSRYB105K10
	C 5025	(A,166,12)		CKSRYB102K50
	C 5026	(A,170,14)		CKSRYB102K50
	C 5027	(A,177,14)		CKSRYB102K50
	C 5028	(A,179,16)		CCSRCH220J50
	C 6001	(A,139,18)		CKSRYB104K16
	C 9004	(A,121,94)		CKSRYB103K50
	C 9005	(A,116,99)		CEJQ2R2M50
	C 9006	(A,122,88)		CKSRYB105K10
	C 9007	(A,79,92)	ELECT. CAPACITOR	CEAT331M6R3
	C 9008	(B,77,90)		CKSRYB103K50
	C 9011	(B,95,89)		CKSRYB473K16
	C 9014	(B,87,88)		CKSRYB473K16
	C 9015	(A,100,95)		CKSRYB102K50
	C 9018	(B,72,72)		CKSRYB104K50
	C 9081	(A,120,69)		CKSRYB103K50
	C 9082	(A,97,16)		CKSRYB104K16

B DSP ASSY

MISCELLANEOUS

Mark	No.		Description	Part No.
	IC 401	(A,124,54)	XM/DT IC	F2621E-01
	IC 402	(A,124,24)	LOAD SWITCHING	AAT4618IGV-0.5-1
	IC 551	(A,84,42)	IC	TC74VHC157FTS1
	IC 601	(A,109,36)	DA I/F TRANSCEIVER	AK4114VQ
	IC 701	(A,77,29)	CODEC IC	AK4628AVQ
	IC 801	(A,37,39)	DSP IC	DSPC56371AF180
	IC 802	(A,33,26)	IC	TC7WU04FU
	IC 851	(A,50,17)	FLASH ROM IC	PDC151A8
			FLASH ROM IC	LE25FW106MA
	IC 871	(B,65,43)	IC	TC7WH125FU
⚠	IC 901	(B,114,24)	REGURATOR IC	PQ1LAX95MSPQ
⚠	IC 902	(A,99,24)	REGURATOR IC	PQ1LAX95MSPQ
	IC 951	(A,60,56)	IC	TC74VHCT08AFTS1
	IC 952	(A,16,32)	IC	TC74VHCT541AFTS1
	IC 953	(A,51,56)	IC	TC74VHC08FTS1
	Q 801	(B,33,29)	TRANSISTOR	RT1N241M
	D 401	(B,127,46)	DIODE	UDZS5R6(B)
	D 402	(B,125,31)	DIODE	UDZS5R6(B)
	D 701	(A,81,19)	DIODE	MA152WA
	D 702	(B,82,18)	DIODE	MA152WK
	D 901	(B,107,21)	DIODE	UDZS5R6(B)
	D 902	(B,102,20)	DIODE	UDZS5R6(B)
	L 401	(A,121,43)	CHIP SOLID INDUCTOR	QTL1013
	L 402	(A,127,21)	CHIP SOLID INDUCTOR	ATL7002
	L 551	(A,90,45)	CHIP SOLID INDUCTOR	QTL1013
	L 601	(B,103,41)	CHIP SOLID INDUCTOR	QTL1013
	L 602	(A,100,36)	CHIP SOLID INDUCTOR	QTL1013
	L 701	(B,68,30)	CHIP SOLID INDUCTOR	QTL1013
	L 702	(A,93,22)	CHIP SOLID INDUCTOR	QTL1013
	L 801	(A,37,25)	CHIP SOLID INDUCTOR	QTL1013
	L 802	(A,42,29)	CHIP SOLID INDUCTOR	ATL7002
	L 803	(A,51,42)	CHIP SOLID INDUCTOR	ATL7002
	L 804	(B,29,34)	CHIP SOLID INDUCTOR	QTL1013
	L 851	(A,46,21)	CHIP SOLID INDUCTOR	QTL1013
	L 871	(B,69,45)	CHIP SOLID INDUCTOR	QTL1013
	L 901	(B,105,18)	CHIP SOLID INDUCTOR	ATL7002
	L 902	(B,100,18)	CHIP SOLID INDUCTOR	ATL7002
	L 951	(A,56,53)	CHIP SOLID INDUCTOR	QTL1013
	L 952	(A,21,28)	CHIP SOLID INDUCTOR	QTL1013
	L 953	(A,65,53)	CHIP SOLID INDUCTOR	QTL1013
	JA 501	(A,142,22)	PIN JACK(2P)	AKB7173
	X 401	(A,112,57)	CRYSTAL RESONATOR (145.1584MHz)	ASS7065

Mark	No.		Description	Part No.
X	801	(A,23,22)	CRYSTAL RESONATOR (24.576MHz)	XSS3003
	CN401	(A,143,41)	4P SOCKET	AKP7201
	CN601	(A,107,50)	10P CONNECTOR	VKN1241
	CN701	(A,83,14)	19P SOCKET	XKP3080
	CN901	(A,116,14)	13P SOCKET	XKP3077
	CN951	(A,45,14)	15P SOCKET	XKP3078
	CN953	(A,30,58)	12P CONNECTOR	VKN1243

RESISTORS

R	404	(B,123,46)		RS1/16S101J
R	405	(B,121,41)		RS1/16S102J
R	406	(B,125,41)		RS1/16S101J
R	407	(B,123,41)		RS1/16S102J
R	410	(A,116,58)		RS1/16SS471J
R	411	(A,116,56)		RS1/16SS105J
R	414	(A,129,48)		RS1/16SS223J
R	415	(A,129,49)		RS1/16SS223J
R	417	(B,135,54)		RS1/16S223J
R	418	(A,133,50)	RESISTOR ARRAY	RAB4CQ101J
R	419	(B,135,50)		RS1/16S223J
R	420	(B,137,50)		RS1/16S223J
R	421	(A,130,56)		RS1/16SS223J
R	423	(A,132,56)		RS1/16SS101J
R	424	(A,129,60)		RS1/16SS101J
R	425	(A,127,61)		RS1/16SS101J
R	426	(A,120,48)		RS1/16SS101J
R	427	(A,120,47)		RS1/16SS101J
R	428	(B,119,52)		RS1/16S101J
R	429	(A,124,47)		RS1/16SS101J
R	430	(A,124,21)		RS1/16S103J
R	432	(A,130,54)		RS1/16SS223J
R	433	(A,120,61)		RS1/16SS0R0J
R	435	(A,114,53)		RS1/16SS0R0J
R	436	(A,129,47)		RS1/16SS0R0J
R	501	(B,131,16)		RS1/16S750J
R	502	(B,134,30)		RS1/16S750J
R	516	(B,114,36)		RS1/16S100J
R	517	(B,130,30)		RS1/16S100J
R	562	(A,89,39)		RS1/16S470J
R	563	(B,83,43)		RS1/16S101J
R	564	(A,90,41)		RS1/16S470J
R	565	(B,87,41)		RS1/16S101J
R	566	(A,90,42)		RS1/16SS101J
R	567	(A,78,43)		RS1/16SS101J
R	568	(A,78,42)		RS1/16SS101J
R	569	(B,78,40)		RS1/16S470J
R	570	(A,78,41)		RS1/16SS101J
R	571	(A,78,39)		RS1/16SS470J
R	604	(B,114,46)		RS1/16S104J
R	605	(B,112,46)		RS1/16S104J
R	606	(B,110,46)		RS1/16S104J
R	612	(A,117,33)		RS1/16S0R0J
R	614	(A,102,38)		RS1/16SS101J
R	615	(A,104,30)		RS1/16SS470J
R	616	(A,102,34)		RS1/16SS101J
R	617	(B,105,31)		RS1/16S101J
R	618	(B,107,31)		RS1/16S101J
R	620	(A,106,30)		RS1/16SS470J
R	621	(B,108,36)		RS1/16S220J
R	624	(A,112,28)	RESISTOR ARRAY	RAB4CQ101J
R	627	(B,112,32)		RS1/16S103J
R	628	(A,117,38)		RS1/16S1802F
R	665	(A,99,58)		RS1/16SS0R0J
R	666	(A,98,58)		RS1/16SS0R0J
R	667	(A,97,58)		RS1/16SS0R0J
R	701	(B,78,35)		RS1/16S470J
R	702	(B,75,35)		RS1/16S101J
R	704	(B,70,27)		RS1/16S4R7J
R	705	(A,60,18)		RS1/16SS101J
R	706	(A,63,18)		RS1/16SS101J
R	707	(A,65,18)		RS1/16SS101J
R	708	(A,68,18)		RS1/16SS101J
R	709	(A,70,18)		RS1/16SS101J
R	710	(A,73,18)		RS1/16SS101J
R	711	(A,75,18)		RS1/16SS101J
R	712	(A,78,18)		RS1/16SS101J
R	713	(A,86,30)		RS1/16S470J
R	714	(A,85,36)	RESISTOR ARRAY	RAB4CQ101J
R	801	(A,48,48)		RS1/16SS470J
R	802	(A,40,50)	RESISTOR ARRAY	RAB4CQ101J
R	803	(B,44,48)		RS1/16S103J
R	804	(B,42,48)		RS1/16S103J
R	805	(B,39,42)		RS1/16S103J
R	806	(B,37,42)		RS1/16S103J
R	807	(B,35,42)		RS1/16S473J
R	810	(A,26,39)		RS1/16SS473J
R	811	(A,24,37)		RS1/16SS472J
R	812	(B,27,43)		RS1/16S101J
R	813	(A,24,34)		RS1/16SS103J
R	815	(A,25,26)		RS1/16SS105J
R	816	(A,23,26)		RS1/16SS471J
R	817	(A,34,28)		RS1/16SS101J
R	818	(B,35,23)		RS1/16S220J
R	819	(B,26,29)		RS1/16S101J
R	821	(B,31,29)		RS1/16S0R0J
R	822	(B,36,30)		RS1/16S103J
R	823	(B,36,36)		RS1/16S473J
R	827	(B,48,38)		RS1/16S470J
R	828	(B,41,27)		RS1/16S470J
R	829	(B,44,33)		RS1/16S470J
R	830	(B,46,33)		RS1/16S470J
R	831	(B,42,31)		RS1/16S470J
R	832	(A,47,41)		RS1/16SS470J
R	833	(A,48,45)	RESISTOR ARRAY	RAB4CQ470J
R	840	(A,24,33)		RS1/16SS101J
R	841	(A,67,38)		RS1/16S473J
R	851	(A,44,28)		RS1/16SS470J
R	852	(B,43,27)		RS1/16S222J
R	853	(B,48,14)		RS1/16S103J
R	855	(B,41,21)		RS1/16S103J
R	856	(A,54,18)		RS1/16SS103J
R	857	(B,45,27)		RS1/16S103J
R	871	(B,59,36)		RS1/16S470J
R	872	(B,61,36)		RS1/16S470J
R	873	(B,61,44)		RS1/16S470J
R	874	(B,59,44)		RS1/16S470J
R	905	(B,118,17)		RS1/16S104J
R	906	(B,120,15)		RS1/16S104J
R	908	(A,123,13)		RS1/16SS0R0J

Mark	No.		Description	Part No.
	R	919	(A,113,20)	RS1/16S1202F
	R	920	(A,115,20)	RS1/16S2002F
	R	921	(A,101,20)	RS1/16S1202F
A	R	922	(A,98,20) CHIP RESISTOR	RS1/16S1000F
	R	951	(B,25,33)	RS1/16S101J
	R	952	(B,23,33)	RS1/16S101J
	R	953	(B,21,33)	RS1/16S101J
	R	954	(A,17,26) RESISTOR ARRAY	RAB4CQ101J
	R	955	(A,14,26) RESISTOR ARRAY	RAB4CQ101J
	R	962	(A,32,18) RESISTOR ARRAY	RAB4CQ104J
	R	963	(A,30,53)	RS1/16SS104J
	R	964	(A,27,53) RESISTOR ARRAY	RAB4CQ104J
	R	965	(A,16,59)	RS1/16SS104J
	R	966	(A,55,61)	RS1/16SS331J
B	R	970	(A,37,18) RESISTOR ARRAY	RAB4CQ104J
	R	971	(A,62,61)	RS1/16SS331J
	R	973	(A,55,59)	RS1/16SS331J
	R	978	(B,53,57)	RS1/16S101J
	R	979	(A,47,54)	RS1/16SS101J
	R	980	(B,55,57)	RS1/16S101J

CAPACITORS

	C	401	(A,126,41)	CEVW470M6R3
	C	402	(A,125,61)	CKSSYB104K10
	C	403	(A,125,60)	CKSSYB471K50
	C	404	(B,121,46)	CKSRYB104K16
C	C	405	(B,125,46)	CKSRYB104K16
	C	406	(B,125,36)	CKSRYB104K16
	C	407	(A,124,32)	CEVW101M16
	C	408	(A,124,27)	CKSRYB104K16
	C	409	(A,115,58)	CCSSCH9R0D50
	C	410	(A,115,56)	CCSSCH9R0D50
	C	413	(A,127,24)	CKSRYB105K16
	C	503	(B,127,16)	CKSRYB103K50
	C	504	(B,132,30)	CKSRYB103K50
	C	551	(A,84,46)	CKSSYB104K10
D	C	606	(A,102,40)	CKSRYB104K16
	C	607	(A,96,39)	CEVW470M6R3
	C	608	(A,101,36)	CCSRCH471J50
	C	609	(A,102,36)	CKSRYB104K16
	C	614	(B,110,32)	CKSRYB104K16
	C	617	(B,114,32)	CKSRYB102K50
	C	618	(A,117,28)	CEVW470M6R3
	C	619	(A,118,35)	CKSSYB104K10
	C	620	(A,116,35)	CCSRCH471J50
	C	621	(A,116,38)	CKSRYB474K10
	C	701	(A,67,32)	CKSSYB103K16
E	C	703	(A,64,23)	CEVW101M16
	C	704	(A,67,29)	CKSRYB104K16
	C	705	(A,68,30)	CCSSCH101J50
	C	706	(B,66,26)	CKSRYB104K16
	C	707	(B,60,19)	CKSRYB471K50
	C	708	(B,63,19)	CKSRYB471K50
	C	709	(B,65,19)	CKSRYB471K50
	C	710	(B,68,19)	CKSRYB471K50
	C	711	(B,70,19)	CKSRYB471K50
	C	712	(B,73,19)	CKSRYB471K50
F	C	713	(B,75,19)	CKSRYB471K50
	C	714	(B,78,19)	CKSRYB471K50
	C	715	(A,90,29)	CEVW101M16
	C	716	(A,86,27)	CKSRYB104K16
	C	717	(A,85,27)	CKSSYB471K50
	C	718	(A,87,20)	CEVW470M6R3
	C	720	(A,85,24)	CKSSYB104K10
	C	763	(B,53,36)	CKSRYB471K50
	C	764	(B,55,36)	CKSRYB104K16
	C	802	(A,42,50)	CKSSYB104K10
	C	803	(A,37,49)	CKSSYB471K50
	C	804	(A,37,50)	CKSSYB104K10
	C	806	(A,31,50)	CKSSYB104K10
	C	808	(A,26,43)	CKSSYB104K10
	C	809	(A,27,41)	CKSSYB471K50
	C	810	(A,26,41)	CKSSYB104K10
	C	814	(A,27,33)	CKSSYB471K50
	C	815	(A,25,33)	CKSSYB104K10
	C	816	(A,21,26)	CCSSCH5R0C50
	C	817	(A,27,26)	CCSSCH5R0C50
	C	818	(A,35,23)	CCSRCH471J50
	C	819	(A,35,22)	CKSSYB104K10
	C	821	(A,30,30)	CKSSYB471K50
	C	822	(A,30,29)	CKSSYB104K10
	C	823	(A,32,30)	CKSSYB471K50
	C	824	(A,32,28)	CKSSYB104K10
	C	825	(B,32,39)	CKSRYB103K50
	C	826	(A,38,29)	CKSSYB471K50
	C	827	(A,38,28)	CKSSYB104K10
	C	829	(A,47,36)	CKSSYB104K10
	C	830	(A,47,39)	CKSSYB471K50
	C	831	(A,48,39)	CKSSYB104K10
	C	833	(A,48,43)	CKSSYB104K10
	C	834	(A,41,23)	CEVW101M16
	C	835	(A,57,42) CHIP ELECT.CAPACITOR	CEVW101M4
	C	852	(A,45,18)	CKSSYB104K10
	C	872	(B,70,41)	CKSRYB104K16
	C	907	(B,110,23)	CKSRYB105K16
	C	908	(A,115,22)	CKSRYB105K16
	C	909	(B,97,26)	CKSRYB105K16
	C	910	(B,97,22)	CKSRYB105K16
	C	916	(B,69,34)	CKSRYB471K50
	C	917	(B,71,34)	CKSRYB103K50
	C	918	(B,81,36)	CKSRYB104K16
	C	919	(B,82,36)	CKSRYB471K50
	C	952	(A,56,56)	CKSSYB104K10
	C	955	(A,22,31)	CKSRYB104K16
	C	956	(A,65,56)	CKSRYB104K16

C POWER PACK ASSY

MISCELLANEOUS

⚠	IC	601	(A,265,14) POWER PACK 2CH	STK412-530
⚠	IC	602	(A,199,14) POWER PACK 2CH	STK412-530
⚠	IC	603	(A,132,14) POWER PACK 3CH	STK413-530
⚠	IC	604	(A,265,43) PROTECTOR(10A)	AEK7022
⚠	IC	605	(A,273,41) PROTECTOR(10A)	AEK7022
⚠	IC	606	(A,133,48) PROTECTOR(10A)	AEK7022
⚠	IC	607	(A,138,47) PROTECTOR(10A)	AEK7022
⚠	IC	608	(A,199,48) PROTECTOR(10A)	AEK7022
⚠	IC	609	(A,205,48) PROTECTOR(10A)	AEK7022
⚠	IC	610	(A,59,28) PROTECTOR(1A)	AEK7009
⚠	IC	701	(A,100,80) IC PROTECTOR	ICP-N10

Mark	No.	Description	Part No.
⚠	IC 702	(A,84,81) IC PROTECTOR	ICP-N10
⚠	IC 803	(B,238,94) IC	BA05FP
⚠	IC 804	(A,282,111) REGULATOR IC	TA7809S
⚠	IC 805	(B,270,132) LDO REGULATOR(5V)	NJM2831F05
	Q 501	(B,86,38) TRANSISTOR	2SC5938A
	Q 505	(A,111,47) TRANSISTOR	2SC2240
	Q 601	(B,89,44) TRANSISTOR	2SC5938A
	Q 602	(B,224,43) TRANSISTOR	2SC5938A
	Q 605	(A,118,40) TRANSISTOR	2SC2240
	Q 606	(A,252,40) TRANSISTOR	2SC2240
	Q 631	(B,152,38) TRANSISTOR	2SC5938A
	Q 633	(A,178,47) TRANSISTOR	2SC2240
	Q 651	(B,158,43) TRANSISTOR	2SC5938A
	Q 652	(B,219,37) TRANSISTOR	2SC5938A
	Q 655	(A,186,40) TRANSISTOR	2SC2240
	Q 656	(A,244,47) TRANSISTOR	2SC2240
	Q 681	(B,77,48) TRANSISTOR	2SC5938A
	Q 683	(A,59,65) TRANSISTOR	2SC2240
	Q 696	(B,284,22) TRANSISTOR	2SC4081
	Q 697	(B,282,26) TRANSISTOR	2SC4081
	Q 698	(B,246,67) TRANSISTOR	RT1N241M
⚠	Q 701	(A,110,72) TRANSISTOR	2SC5511
⚠	Q 702	(A,96,86) TRANSISTOR	2SA2005
	Q 703	(A,155,76) TRANSISTOR	2SA1145
	Q 704	(A,166,79) TRANSISTOR	2SC2240
	Q 705	(B,245,74) CHIP TRANSISTOR	RN4903
	Q 707	(B,241,74) CHIP TRANSISTOR	RN4903
	Q 721	(A,142,71) TRANSISTOR	2SA1145
	Q 722	(A,161,74) TRANSISTOR	2SC2240
	Q 801	(B,277,141) DIGITAL TR(SC-70)	RT1P241M
	Q 802	(B,274,145) TRANSISTOR	RT1N241M
	Q 803	(B,265,140) DIGITAL TR(SC-70)	RT1P241M
	Q 804	(B,268,145) TRANSISTOR	RT1N241M
	Q 805	(B,277,146) DIGITAL TR(SC-70)	RT1P241M
	Q 806	(B,271,145) TRANSISTOR	RT1N241M
	Q 807	(B,276,53) TRANSISTOR	RT3P22M
	Q 808	(B,283,56) TRANSISTOR	RT3N22M
	Q 810	(A,206,104) TRANSISTOR	2SD1858X
	D 601	(A,125,57) DIODE	1SS133
	D 602	(A,272,21) ZENER DIODE	MTZJ15A
	D 603	(A,119,57) DIODE	1SS133
	D 604	(A,261,21) ZENER DIODE	MTZJ15A
	D 606	(A,259,57) DIODE	1SS133
	D 608	(A,253,52) DIODE	1SS133
	D 631	(A,192,61) DIODE	1SS133
	D 632	(A,176,52) DIODE	1SS133
	D 647	(A,205,21) ZENER DIODE	MTZJ15A
	D 648	(A,196,21) ZENER DIODE	MTZJ15A
	D 651	(A,192,57) DIODE	1SS133
	D 652	(A,262,57) DIODE	1SS133
	D 653	(A,186,52) DIODE	1SS133
	D 654	(A,242,52) DIODE	1SS133
	D 681	(A,139,21) ZENER DIODE	MTZJ15A
	D 682	(A,128,21) ZENER DIODE	MTZJ15A
	D 683	(A,135,58) DIODE	1SS133
	D 684	(A,65,72) DIODE	1SS133
⚠	D 701	(A,9,88) DIODE	D5SBA20(B)
⚠	D 702	(A,9,126) DIODE	D5SBA20(B)
	D 703	(B,252,76) DIODE	1SS355
	D 711	(A,196,103) ZENER DIODE	MTZJ22D
	D 712	(A,192,103) DIODE	MTZJ6R8(B)
	D 713	(A,118,78) DIODE	1SS133
	D 741	(B,152,136) DIODE	1SS355
	D 742	(B,167,140) DIODE	1SS355
	D 743	(B,121,129) DIODE	1SS355
	D 744	(B,138,139) DIODE	1SS355
	D 745	(B,115,129) DIODE	1SS355
	D 746	(B,91,130) DIODE	1SS355
	D 747	(B,71,147) DIODE	1SS355
	D 752	(B,170,135) DIODE	1SS355
	D 754	(B,141,132) DIODE	1SS355
	D 758	(B,73,136) DIODE	1SS355
	D 777	(A,127,57) DIODE	1SS133
	D 778	(A,108,57) DIODE	1SS133
	D 779	(A,196,34) DIODE	30PDA20-FC6
	D 780	(A,201,17) DIODE	30PDA20-FC6
	D 781	(A,264,35) DIODE	30PDA20-FC6
	D 782	(A,135,17) DIODE	30PDA20-FC6
	D 783	(A,129,37) DIODE	30PDA20-FC6
	D 784	(A,267,17) DIODE	30PDA20-FC6
⚠	D 801	(B,221,113) BRIDGE DIODE	S1WB(A)60SD
	D 806	(A,287,62) DIODE	MTZJ6R2(B)
	D 807	(A,284,67) DIODE	1SS133
	D 827	(A,262,133) DIODE	MTZJ6R2(B)
	D 828	(A,224,99) DIODE	MTZJ6R2(B)
⚠	D 829	(A,239,128) DIODE	D3SBA20(B)
	D 900	(A,213,93) DIODE	MTZJ7R5(B)
	L 501	(A,97,118) COIL	ATH1004
	L 751	(A,160,108) COIL	ATH1004
	L 752	(A,173,108) COIL	ATH1004
	L 753	(A,120,107) COIL	ATH1004
	L 754	(A,78,118) COIL	ATH1004
	L 761	(A,130,108) COIL	ATH1004
	L 762	(A,142,108) COIL	ATH1004
	J 43	JUMPER WIRE 11P	D20PYY1120E
	KN601	(A,65,23) WRAPPING TERMINAL	VNF1084
	RY501	(A,75,132) RELAY	ASR7001
	RY751	(A,173,130) RELAY	ASR7001
	RY752	(A,141,126) RELAY	ASR7001
	RY753	(A,117,120) RELAY	ASR7001
	CN701	(A,212,134) 11PJUMPER CONNECTOR	52147-1110
	CN702	(A,201,106) 6P JUMPER CONNECTOR	52147-0610
	CN705	(A,295,40) 21P PLUG	XKM3011
	CN751	SP TERMINAL 8-P(V0)	XKE3039
	CN752	SP TERMINAL 6-P(V0)	XKE3040
	CN803	(A,231,129) 6P PLUG	KM200TA6
	CN805	(A,317,153) 13P PLUG	XKP3066
	CN806	(A,317,120) 19P PLUG	XKP3069
	CN807	(A,317,82) 15P PLUG	XKP3067
	CN808	(A,205,89) CONNECTOR	CKS3374
	CN815	(A,295,79) 19P PLUG	XKM3005
	CN816	(A,295,126) 21P PLUG	XKM3011
	CN817	CONNECTOR	CKS3382
	810	(A,277,90) 11P CABLE HOLDER	51048-1100

RESISTORS

	R 601	(A,95,48)	RD1/4PU102J
	R 602	(A,228,42)	RD1/4PU102J
	R 603	(B,91,47)	RS1/16S103J
	R 604	(B,225,47)	RS1/16S103J
	R 605	(B,250,23)	RS1/16S0R0J

Mark	No.	Description	Part No.
	R 606	(B,241,28)	RS1/16S0R0J
	R 607	(B,184,23)	RS1/16S0R0J
	R 608	(B,175,28)	RS1/16S0R0J
	R 609	(A,91,35)	RD1/4PU563J
	R 610	(A,225,35)	RD1/4PU563J
	R 611	(A,90,28)	RD1/4PU182J
	R 612	(A,223,28)	RD1/4PU182J
	R 613	(A,114,21)	RD1/4PU563J
	R 614	(A,247,21)	RD1/4PU563J
	R 615	(A,123,36)	RD1/4PU331J
	R 616	(A,270,29)	RD1/4PU562J
⚠	R 617	(A,114,31) RESISTOR (0.22, 5W)	ACN7094
	R 618	(A,266,29)	RD1/4PU562J
	R 619	(A,122,52)	RD1/4PU182J
	R 620	(A,257,36)	RD1/4PU331J
	R 621	(A,124,49)	RD1/4PU821J
⚠	R 622	(A,248,31) RESISTOR (0.22, 5W)	ACN7094
	R 623	(A,116,48)	RD1/4PU223J
	R 624	(A,257,52)	RD1/4PU182J
	R 625	(B,116,22)	RS1/16S0R0J
	R 626	(A,258,49)	RD1/4PU821J
	R 627	(B,107,28)	RS1/16S0R0J
	R 628	(A,250,48)	RD1/4PU223J
	R 629	(B,92,9)	RS1/16S0R0J
	R 630	(A,230,21)	RD1/4PU102J
	R 631	(A,148,42)	RD1/4PU102J
	R 632	(B,152,41)	RS1/16S103J
	R 635	(A,153,29)	RD1/4PU563J
	R 636	(A,149,25)	RD1/4PU182J
	R 637	(A,172,21)	RD1/4PU563J
	R 638	(A,174,36)	RD1/4PU331J
⚠	R 639	(A,173,31) RESISTOR (0.22, 5W)	ACN7094
	R 640	(A,179,57)	RD1/4PU182J
	R 641	(A,174,52)	RD1/4PU821J
	R 642	(A,169,39)	RD1/4PU223J
	R 647	(A,202,29)	RD1/4PU562J
	R 648	(A,199,29)	RD1/4PU562J
	R 651	(A,162,47)	RD1/4PU102J
	R 652	(A,215,36)	RD1/4PU102J
	R 653	(B,158,47)	RS1/16S103J
	R 654	(B,219,41)	RS1/16S103J
	R 659	(A,159,35)	RD1/4PU563J
	R 660	(A,220,29)	RD1/4PU563J
	R 661	(A,156,28)	RD1/4PU182J
	R 662	(A,216,20)	RD1/4PU182J
	R 663	(A,181,21)	RD1/4PU563J
	R 664	(A,238,21)	RD1/4PU563J
	R 665	(A,190,36)	RD1/4PU331J
	R 666	(A,240,35)	RD1/4PU331J
⚠	R 667	(A,182,31) RESISTOR (0.22, 5W)	ACN7094
⚠	R 668	(A,239,31) RESISTOR (0.22, 5W)	ACN7094
	R 669	(A,189,52)	RD1/4PU182J
	R 670	(A,245,52)	RD1/4PU182J
	R 671	(A,192,49)	RD1/4PU821J
	R 672	(A,240,57)	RD1/4PU821J
	R 673	(A,184,48)	RD1/4PU223J
	R 674	(A,236,38)	RD1/4PU223J
	R 681	(A,72,51)	RD1/4PU102J
	R 682	(B,70,49)	RS1/16S103J
	R 685	(B,75,37)	RS1/16S563J
	R 686	(B,80,21)	RS1/16S182J
	R 687	(A,83,10)	RD1/4PU563J
	R 688	(A,135,30)	RD1/4PU562J
	R 689	(A,132,30)	RD1/4PU562J
	R 690	(A,60,52)	RD1/4PU331J
⚠	R 691	(A,55,55) RESISTOR (0.22, 5W)	ACN7094
	R 692	(A,70,72)	RD1/4PU182J
	R 693	(A,67,77)	RD1/4PU821J
	R 694	(A,62,72)	RD1/4PU223J
	R 695	(A,97,22)	RD1/4PU102J
	R 696	(B,281,38)	RS1/16S103J
	R 697	(B,255,68)	RS1/16S103J
	R 698	(B,243,67)	RS1/16S333J
	R 699	(A,165,21)	RD1/4PU102J
	R 701	(A,121,86)	RD1/4PU562J
	R 702	(A,110,87)	RD1/4PU562J
	R 703	(A,151,72)	RD1/4PU473J
	R 704	(A,148,77)	RD1/4PU473J
	R 705	(A,283,85)	RD1/4PU473J
	R 706	(A,283,75)	RD1/4PU473J
	R 707	(A,135,77)	RD1/4PU184J
	R 708	(A,147,81)	RD1/4PU184J
⚠	R 709	(A,104,72) METAL OXIDE RESISTOR	RS1LMF272J
⚠	R 710	(A,89,93) METAL OXIDE RESISTOR	RS1LMF272J
⚠	R 711	(A,181,86) METAL OXIDE RESISTOR	RS2LMF242J
	R 713	(A,118,86)	RD1/4PU102J
	R 714	(B,252,68)	RS1/16S102J
	R 715	(B,250,75)	RS1/16S103J
	R 716	(B,247,75)	RS1/16S103J
	R 721	(A,145,77)	RD1/4PU682J
	R 722	(A,124,78)	RD1/4PU682J
	R 723	(A,276,78)	RD1/4PU473J
	R 724	(A,279,83)	RD1/4PU473J
	R 725	(A,276,74)	RD1/4PU103J
	R 726	(B,291,59)	RS1/16S103J
	R 727	(B,287,59)	RS1/16S103J
	R 728	(B,106,9)	RS1/16S123J
	R 729	(B,152,16)	RS1/16S123J
	R 730	(B,214,14)	RS1/16S123J
	R 731	(A,121,73)	RD1/4PU220J
	R 732	(A,101,89)	RD1/4PU220J
	R 740	(B,87,141)	RS1/16S683J
	R 741	(B,152,140)	RS1/16S333J
	R 742	(B,169,143)	RS1/16S333J
	R 743	(B,121,134)	RS1/16S333J
	R 744	(B,137,143)	RS1/16S333J
	R 745	(B,110,131)	RS1/16S333J
	R 746	(B,85,132)	RS1/16S333J
	R 747	(B,70,143)	RS1/16S333J
⚠	R 751	(A,158,119) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R 752	(A,185,120) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R 753	(A,156,126) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R 754	(A,181,126) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R 755	(A,103,117) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R 756	(A,101,120) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R 761	(A,125,117) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R 762	(A,155,119) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R 763	(A,124,132) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R 764	(A,149,139) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R 771	(A,63,144) METAL OXIDE RESISTOR	RS1LMF4R7J

Mark	No.		Description	Part No.
⚠	R	772	(A,63,127) CARBON FILM RESISTOR	RD1/4PUF101J
	R	777	(A,81,37)	RD1/4PU102J
	R	778	(B,85,42)	RS1/16S103J
	R	781	(A,87,30)	RD1/4PU563J
	R	782	(A,84,22)	RD1/4PU182J
	R	783	(A,104,21)	RD1/4PU563J
	R	784	(A,111,35)	RD1/4PU331J
⚠	R	785	(A,105,31) RESISTOR (0.22, 5W)	ACN7094
	R	786	(A,111,57)	RD1/4PU182J
	R	787	(A,106,57)	RD1/4PU821J
	R	788	(A,102,38)	RD1/4PU223J
	R	789	(A,82,127) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R	790	(A,81,132) METAL OXIDE RESISTOR	RS1LMF4R7J
	R	806	(B,283,48)	RS1/16S103J
	R	807	(B,278,48)	RS1/16S103J
	R	808	(B,283,52)	RS1/16S102J
	R	813	(B,274,130)	RS1/16S102J
	R	885	(B,310,57)	RS1/16S221J
	R	886	(B,310,61)	RS1/16S221J
	R	887	(B,310,65)	RS1/16S221J
	R	888	(B,315,22)	RS1/16S221J
	R	900	(B,212,97)	RS1/16S102J
	R	901	(B,211,100)	RS1/16S100J
	R	1101	(B,273,68)	RS1/16S0R0J
	R	1102	(B,274,61)	RS1/16S0R0J
	R	1103	(B,70,136)	RS1/16S0R0J
	R	1104	(B,138,132)	RS1/16S0R0J
	R	1105	(B,168,135)	RS1/16S0R0J
	R	1109	(B,285,56)	RS1/16S0R0J
	R	1110	(B,241,68)	RS1/16S0R0J

CAPACITORS

	C	517	(A,82,154) FILM CAPACITOR	CQMBA104J50
	C	603	(B,94,39)	CKSRYB331K50
	C	604	(B,227,38)	CKSRYB331K50
	C	605	(A,96,38)	CEAT4R7M50
	C	606	(A,230,38)	CEAT4R7M50
	C	607	(B,95,20)	CCSRCH470J50
	C	608	(B,230,17)	CCSRCH470J50
	C	609	(A,91,32)	CEAT101M16
	C	610	(A,225,32)	CEAT101M16
	C	613	(B,116,27)	CCSRCJ3R0C50
	C	614	(B,250,28)	CCSRCJ3R0C50
	C	615	(A,116,45)	CEANP2R2M50
	C	616	(A,250,45)	CEANP2R2M50
	C	630	(A,172,44)	CEANP2R2M50
	C	632	(B,150,33)	CKSRYB331K50
	C	633	(A,148,32)	CEAT4R7M50
	C	634	(B,155,17)	CCSRCH470J50
	C	635	(A,153,25)	CEAT101M16
	C	637	(B,175,24)	CCSRCJ3R0C50
	C	653	(B,161,38)	CKSRYB331K50
	C	654	(B,217,33)	CKSRYB331K50
	C	655	(A,163,38)	CEAT4R7M50
	C	656	(A,215,33)	CEAT4R7M50
	C	657	(B,165,17)	CCSRCH470J50
	C	658	(B,221,17)	CCSRCH470J50
	C	659	(A,158,31)	CEAT101M16
	C	660	(A,219,25)	CEAT101M16
	C	663	(B,184,27)	CCSRCJ3R0C50
	C	664	(B,241,24)	CCSRCJ3R0C50
	C	665	(A,184,45)	CEANP2R2M50
	C	666	(A,239,49)	CEANP2R2M50
	C	682	(B,75,43)	CKSRYB331K50
	C	683	(A,78,43)	CEAT4R7M50
	C	684	(B,82,18)	CCSRCH470J50
	C	685	(A,78,37)	CEAT101M16
	C	687	(B,87,8)	CCSRCJ3R0C50
	C	688	(A,75,78)	CEANP2R2M50
	C	696	(B,281,36)	CKSRYB102K50
	C	697	(A,286,34)	CEAT221M6R3
	C	701	(A,49,80) E-CAP 5600/71	XCH3027
	C	702	(A,49,107) E-CAP 5600/71	XCH3027
	C	703	(A,43,130) ELECT.CAPACITOR	XCH3012
	C	704	(A,38,150) ELECT.CAPACITOR	XCH3012
	C	705	(A,156,81) ELECT. CAPACITOR	CEAT100M2A
	C	706	(A,142,84) ELECT. CAPACITOR	CEAT100M2A
	C	709	(A,257,73)	CEAT1R0M50
	C	711	(A,195,99) ELECT. CAPACITOR	CEAT101M35
	C	712	(A,189,105)	CEAT101M10
	C	740	(A,90,136)	CEAT101M25
	C	751	(A,159,143) FILM CAPACITOR	CQMBA104J50
	C	752	(A,181,150) FILM CAPACITOR	CQMBA104J50
	C	755	(A,103,147) FILM CAPACITOR	CQMBA104J50
	C	761	(A,122,139) FILM CAPACITOR	CQMBA104J50
	C	762	(A,152,145) FILM CAPACITOR	CQMBA104J50
	C	771	(A,52,147) FILM CAPACITOR	CQMBA104J50
	C	778	(B,84,34)	CKSRYB331K50
	C	779	(A,81,33)	CEAT4R7M50
	C	780	(B,88,18)	CCSRCH470J50
	C	781	(A,87,27)	CEAT101M16
	C	783	(B,107,24)	CCSRCJ3R0C50
	C	784	(A,105,49)	CEANP2R2M50
	C	801	(A,248,114) ELECT. CAPACITOR	CEAT222M25
	C	802	(A,249,100) ELECT. CAPACITOR	CEAT222M25
	C	806	(A,288,55)	CEAT1R0M50
	C	807	(B,227,93)	CKSRYB103K25
	C	808	(A,245,142) ELECT. CAPACITOR	CEAT472M16
	C	809	(A,232,95)	CEAT101M10
	C	810	(A,266,133)	CEAT101M10
	C	811	(B,279,128)	CKSRYB103K25
	C	812	(B,278,109)	CKSRYB103K25
	C	813	(A,276,118)	CEAT101M16
	C	850	(A,210,94)	CEAT101M10
	C	901	(B,215,91)	CKSRYB104K16

D TRANS2 ASSY

MISCELLANEOUS

⚠	IC	853	(A,32,204) PROTECTOR(7A)	AEK7021
	J	21	JUMPER WIRE 11P	D20PYY1130E
	CN1201		(A,35,183) 4P JUMPER CONNECTOR	52147-0410
⚠		851	(A,49,207) 11P CABLE HOLDER	51048-1100

E TRANS3 ASSY

RESISTORS

	R	881	(A,40,239)	RD1/4PU4R7J
	R	882	(A,40,236)	RD1/4PU4R7J

Mark	No.	Description	Part No.
CAPACITORS			
	C 881	(A,13,234) MYLAR FILM CAPACITOR	CQMA333K2E
	C 882	(A,16,239) MYLAR FILM CAPACITOR	CQMA333K2E
A	C 883	(A,27,238) FILM CAPACITOR	CQMBA333J50
	C 884	(A,36,239) FILM CAPACITOR	CQMBA333J50

F COMPONENT VIDEO ASSY (VSX-917V)

Mark	No.	Description	Part No.
MISCELLANEOUS			
	IC 1401	(B,262,201) LOGIC IC	TC74HC4052AF
	IC 1402	(B,286,189) LOGIC IC	TC74HC4052AF
	IC 1403	(B,286,202) LOGIC IC	TC74HC4053AF
	IC 1404	(B,223,198) VIDEO IC	NJM2581M
	IC 1405	(B,190,205) LOGIC IC	TC4094BFN
B			
	Q 1415	(B,316,194) TRANSISTOR	2SC4081
	Q 1416	(B,312,194) TRANSISTOR	2SC4081
	Q 1417	(B,298,203) TRANSISTOR	2SC4081
	D 1401	(B,210,230) DIODE	1SS355
	D 1402	(B,207,230) DIODE	1SS355
	L 1401	(B,318,210) CHIP COIL	LCYA120J2520
	L 1402	(B,311,210) CHIP COIL	LCYA120J2520
	L 1403	(B,304,209) CHIP COIL	LCYA120J2520
	JA 1401	(A,250,175) 6P RCA PINJACK	XKB3025
	JA 1402	(A,208,175) 6P RCA PINJACK	XKB3025
C	CN1402	(A,234,240) CONNECTOR	CKS3372
	CN1404	(A,300,229) CONNECTOR	CKS3388
	CN1405	(A,254,240) CONNECTOR	CKS3374
	CN1406	(A,194,235) CONNECTOR	CKS3380
RESISTORS			
	R 1401	(B,236,184)	RS1/16S750J
	R 1402	(B,251,200)	RS1/16S750J
	R 1403	(B,263,184)	RS1/16S750J
	R 1404	(B,234,184)	RS1/16S750J
	R 1405	(B,248,183)	RS1/16S750J
	R 1406	(B,260,183)	RS1/16S750J
D	R 1407	(B,199,184)	RS1/16S750J
	R 1408	(B,209,183)	RS1/16S750J
	R 1409	(B,221,182)	RS1/16S750J
	R 1410	(B,181,191)	RS1/16S750J
	R 1411	(B,216,192)	RS1/16S750J
	R 1412	(B,214,192)	RS1/16S750J
	R 1416	(B,181,201)	RS1/16S102J
	R 1424	(B,315,217)	RS1/16S561J
	R 1425	(B,309,213)	RS1/16S561J
	R 1426	(B,304,213)	RS1/16S561J
	R 1430	(B,203,211)	RS1/16S473J
E	R 1439	(B,184,221)	RS1/16S473J
	R 1440	(B,181,221)	RS1/16S473J
	R 1461	(B,318,202)	RS1/16S223J
	R 1462	(B,315,201)	RS1/16S223J
	R 1463	(B,304,201)	RS1/16S223J
	R 1464	(B,320,193)	RS1/16S102J
	R 1465	(B,318,193)	RS1/16S102J
	R 1466	(B,298,208)	RS1/16S102J
	R 1467	(B,320,197)	RS1/16S101J
	R 1468	(B,309,201)	RS1/16S101J
	R 1469	(B,302,203)	RS1/16S101J
F	R 1470	(B,317,215)	RS1/16S0R0J
	R 1471	(B,309,218)	RS1/16S0R0J
	R 1472	(B,301,213)	RS1/16S0R0J
	R 1485	(B,180,206)	RS1/16S0R0J
	R 1486	(B,181,225)	RS1/16S0R0J
	R 1487	(B,179,235)	RS1/16S0R0J
	R 1488	(B,194,223)	RS1/16S0R0J
	R 1495	(B,265,208)	RS1/16S750J
	R 1497	(B,277,183)	RS1/16S750J
CAPACITORS			
	C 1413	(B,256,198)	CKSRYB103K50
	C 1414	(B,269,209)	CKSRYB103K50
	C 1415	(B,277,188)	CKSRYB103K50
	C 1416	(B,280,184)	CKSRYB103K50
	C 1417	(B,274,204)	CKSRYB103K50
	C 1418	(B,287,212)	CKSRYB103K50
	C 1419	(A,231,216)	CEAT101M10
	C 1420	(A,231,210)	CEAT101M10
	C 1421	(A,231,204)	CEAT101M10
	C 1425	(A,215,202)	CEAT101M10
	C 1426	(A,201,197)	CEAT101M10
	C 1427	(B,210,194)	CKSRYB104K50
	C 1428	(B,230,194)	CKSRYB104K50
	C 1445	(B,313,218)	CCSRCH120J50
	C 1446	(B,311,214)	CCSRCH120J50
	C 1447	(B,306,213)	CCSRCH120J50
	C 1448	(B,316,209)	CCSRCH330J50
	C 1449	(B,313,210)	CCSRCH330J50
	C 1450	(B,306,209)	CCSRCH330J50
	C 1454	(B,320,210)	CCSRCJ3R0C50
	C 1455	(B,309,209)	CCSRCJ3R0C50
	C 1456	(B,302,209)	CCSRCJ3R0C50
	C 1469	(B,179,196)	CKSRYB104K50
	C 1471	(A,318,205)	CEAT470M25
	C 1472	(A,312,205)	CEAT470M25
	C 1473	(A,306,205)	CEAT470M25
	C 1490	(B,256,183)	CKSRYB103K50
	C 1491	(B,244,183)	CKSRYB103K50
	C 1492	(B,205,183)	CKSRYB103K50
	C 1493	(B,203,183)	CKSRYB103K50

F COMPONENT VIDEO ASSY (VSX-817)

Mark	No.	Description	Part No.
MISCELLANEOUS			
	IC 1401	(B,262,201) LOGIC IC	TC74HC4052AF
	IC 1402	(B,286,189) LOGIC IC	TC74HC4052AF
	IC 1404	(B,223,198) VIDEO IC	NJM2581M
	D 1401	(B,210,230) DIODE	1SS355
	D 1402	(B,207,230) DIODE	1SS355
	JA 1401	(A,250,175) 6P RCA PINJACK	XKB3025
	JA 1402	(A,208,175) 6P RCA PINJACK	XKB3025
	CN1409	(A,204,235) CONNECTOR	CKS3372
RESISTORS			
	R 1401	(B,236,184)	RS1/16S750J
	R 1402	(B,251,200)	RS1/16S750J
	R 1403	(B,263,184)	RS1/16S750J
	R 1404	(B,234,184)	RS1/16S750J
	R 1405	(B,248,183)	RS1/16S750J
	R 1406	(B,260,183)	RS1/16S750J
	R 1407	(B,199,184)	RS1/16S750J
	R 1408	(B,209,183)	RS1/16S750J
	R 1409	(B,221,182)	RS1/16S750J
	R 1410	(B,181,191)	RS1/16S750J

Mark	No.	Description	Part No.
	R 1411	(B,216,192)	RS1/16S750J
	R 1412	(B,214,192)	RS1/16S750J
	R 1482	(B,184,225)	RS1/16S0R0J
	R 1483	(B,180,210)	RS1/16S0R0J
	R 1484	(B,183,236)	RS1/16S0R0J
	R 1489	(B,192,223)	RS1/16S0R0J
	R 1490	(B,192,219)	RS1/16S0R0J
	R 1491	(B,279,204)	RS1/16S0R0J
	R 1492	(B,251,215)	RS1/16S0R0J
	R 1493	(B,248,210)	RS1/16S0R0J
	R 1494	(B,267,226)	RS1/16S102J
	R 1496	(B,288,216)	RS1/16S102J
	R 1498	(B,183,202)	RS1/16S0R0J
	CAPACITORS		
	C 1413	(B,256,198)	CKSRYB103K50
	C 1414	(B,269,209)	CKSRYB103K50
	C 1415	(B,277,188)	CKSRYB103K50
	C 1416	(B,280,184)	CKSRYB103K50
	C 1419	(A,231,216)	CEAT101M10
	C 1420	(A,231,210)	CEAT101M10
	C 1421	(A,231,204)	CEAT101M10
	C 1425	(A,215,202)	CEAT101M10
	C 1426	(A,201,197)	CEAT101M10
	C 1427	(B,210,194)	CKSRYB104K50
	C 1428	(B,230,194)	CKSRYB104K50
	C 1490	(B,256,183)	CKSRYB103K50
	C 1491	(B,244,183)	CKSRYB103K50
	C 1492	(B,205,183)	CKSRYB103K50
	C 1493	(B,203,183)	CKSRYB103K50

G HEAD PHONE ASSY

Mark	No.	Description	Part No.
	MISCELLANEOUS		
	Q 1551	(B,78,211) TRANSISTOR	2SC5938A
	Q 1552	(B,102,219) TRANSISTOR	2SC5938A
	J 47	JUMPER WIRE	D20PYY0640E
	JA 1551	(A,117,233) HEADPHONE JACK	XKB3066
	KN 1551	(A,69,231) WRAPPING TERMINAL	VNF1084
		1551 (A,59,220) 6P CABLE HOLDER	51048-0600
	RESISTORS		
⚠	R 1551	(A,84,202) METAL OXIDE RESISTOR	RS2LMF331J
⚠	R 1552	(A,78,203) METAL OXIDE RESISTOR	RS2LMF331J
⚠	R 1553	(A,108,221) METAL OXIDE RESISTOR	RS1LMF151J
⚠	R 1554	(A,93,216) METAL OXIDE RESISTOR	RS1LMF151J
	R 1555	(B,100,216)	RS1/16S472J
	R 1556	(B,81,210)	RS1/16S472J
	R 1557	(B,87,228)	RS1/16S102J
	CAPACITORS		
	C 1551	(B,94,226)	CKSRYB223K50
	C 1552	(B,83,210)	CKSRYB223K50
	C 1553	(B,110,224)	CKSRYB103K50
	C 1554	(B,110,226)	CCSRCH471J50
	C 1555	(B,110,229)	CKSRYB104K16
	C 1556	(B,112,239)	CKSRYB103K50
	C 1557	(B,109,239)	CCSRCH471J50
	C 1558	(B,107,239)	CKSRYB104K16
	C 1561	(A,69,205) ELECT. CAPACITOR	CEANP470M50
	C 1562	(A,71,223) ELECT. CAPACITOR	CEANP470M50

H 5.1CH INPUT ASSY

Mark	No.	Description	Part No.
	MISCELLANEOUS		
	CN307	(A,125,219) 7P CONNECTOR	52044-0745
	CN309	(A,167,225) PIN JACK(4P)	XKB3035
	RESISTORS		
	R 1001	(B,147,233)	RS1/16S474J
	R 1002	(B,150,226)	RS1/16S474J
	R 1003	(B,149,236)	RS1/16S331J
	R 1004	(B,150,228)	RS1/16S331J
	R 1009	(B,150,224)	RS1/16S474J
	R 1010	(B,151,212)	RS1/16S474J
	R 1011	(B,150,222)	RS1/16S331J
	R 1012	(B,150,214)	RS1/16S331J
	CAPACITORS		
	C 1001	(B,151,233)	CCSRCH101J50
	C 1002	(B,151,230)	CCSRCH101J50
	C 1003	(B,143,233)	CKSRYB221K50
	C 1004	(B,147,230)	CKSRYB221K50
	C 1009	(A,146,236)	CEAT4R7M50
	C 1010	(A,146,228)	CEAT4R7M50
	C 1012	(B,159,226)	CKSRYB103K50
	C 1013	(B,151,219)	CCSRCH101J50
	C 1014	(B,151,216)	CCSRCH101J50
	C 1015	(B,147,224)	CKSRYB221K50
	C 1016	(B,147,216)	CKSRYB221K50
	C 1021	(A,146,214)	CEAT4R7M50
	C 1022	(A,146,221)	CEAT4R7M50

I FRONT DISPLAY

Mark	No.	Description	Part No.
	MISCELLANEOUS		
	IC 401	(B,121,181) DISPLAY U-COM	PE5550A
	IC 402	(A,223,169) REMOTE RECEIVER UNIT	GP1UM27XK0VF
	Q 441	(B,230,161) TRANSISTOR	RT1N241M
	Q 442	(B,238,190) TRANSISTOR	RT1N241M
	Q 484	(B,217,189) TRANSISTOR	2SA1576A
	D 403	(B,226,189) DIODE	1SS355
	D 404	(B,230,176) DIODE	1SS355
	D 405	(B,230,156) DIODE	1SS355
	D 500	(A,210,182) LED(ORANGE)	SLI-343DCW
	D 502	(A,128,161) LED(BLUE)	SLR343BC4T
	L 401	(A,242,159) RADIAL INDUCTOR	LFCA2R2J
	V 401	(A,189,200) FL TUBE	XAV3025
	S 451	(A,234,139) SWITCH	VSG1024
	S 452	(A,213,136) SWITCH	VSG1024
	S 453	(A,187,134) SWITCH	VSG1024
	S 454	(A,70,134) SWITCH	VSG1024
	S 455	(A,46,134) SWITCH	VSG1024
	S 456	(A,23,134) SWITCH	VSG1024
	S 458	(A,13,112) SWITCH	VSG1024
	S 459	(A,114,136) SWITCH	VSG1024
	S 460	(A,91,136) SWITCH	VSG1024
	S 461	(A,57,112) SWITCH	VSG1024
	S 462	(A,42,112) SWITCH	VSG1024
	S 463	(A,27,112) SWITCH	VSG1024
	S 464	(A,164,134) SWITCH	VSG1024
	S 465	(A,140,134) SWITCH	VSG1024
	S 466	(A,86,90) SWITCH	VSG1024

Mark	No.		Description	Part No.
S	467	(A,72,90)	SWITCH	VSG1024
S	468	(A,57,90)	SWITCH	VSG1024
S	469	(A,42,90)	SWITCH	VSG1024
S	470	(A,27,90)	SWITCH	VSG1024
S	471	(A,13,90)	SWITCH	VSG1024
X	401	(A,149,165)	CERAMIC RESONATOR (5.00 MHz)	VSS1142
CN401		(A,246,165)	17P CONNECTOR	52044-1745
	471	(A,35,176)	CABLE HOLDER(3P)	51063-0305
	402		FL HOLDER(FE)	VNF1096
	404	(A,197,127)	CABLE HOLDER(7P)	51063-0705

RESISTORS

R	401	(B,144,169)		RS1/16S105J
R	402	(B,223,189)		RS1/16S104J
R	403	(B,220,189)		RS1/16S104J
R	404	(B,221,178)		RS1/16S472J
R	405	(B,228,155)		RS1/16S102J
R	406	(B,226,155)		RS1/16S103J
R	407	(B,78,176)		RS1/16S473J
R	408	(B,80,176)		RS1/16S473J
R	409	(B,75,176)		RS1/16S473J
R	410	(B,73,176)		RS1/16S473J
R	411	(B,229,189)		RS1/16S473J
R	412	(B,234,187)		RS1/16S221J
R	413	(B,234,184)		RS1/16S221J
R	414	(B,234,182)		RS1/16S221J
R	415	(B,234,180)		RS1/16S221J
R	416	(B,234,178)		RS1/16S221J
R	417	(B,219,182)		RS1/16S101J
R	422	(B,157,169)		RS1/16S104J
R	423	(B,131,167)		RS1/16S104J
R	424	(B,83,176)		RS1/16S104J
R	425	(B,213,182)		RS1/16S104J
R	451	(B,236,144)		RS1/16S472J
R	452	(B,234,144)		RS1/16S681J
R	453	(B,187,147)		RS1/16S821J
R	454	(B,166,153)		RS1/16S122J
R	455	(A,45,146)		RD1/4PU681J
R	456	(A,35,144)		RD1/4PU821J
R	457	(A,16,139)		RD1/4PU122J
R	459	(A,109,134)		RD1/4PU472J
R	460	(A,101,135)		RD1/4PU681J
R	461	(B,52,117)		RS1/16S821J
R	462	(B,49,117)		RS1/16S122J
R	463	(B,34,117)		RS1/16S162J
R	464	(B,20,117)		RS1/16S272J
R	465	(A,161,128)		RD1/4PU472J
R	466	(A,151,128)		RD1/4PU681J
R	467	(A,131,128)		RD1/4PU821J
R	468	(B,79,91)		RS1/16S122J
R	469	(B,64,91)		RS1/16S162J
R	470	(B,50,92)		RS1/16S272J
R	471	(B,34,91)		RS1/16S512J
R	472	(B,86,176)		RS1/16S472J
R	473	(B,19,91)		RS1/16S133J
R	550	(B,204,185)		RS1/16S181J
R	551	(B,125,156)		RS1/16S391J

CAPACITORS

C	401	(B,247,155)		CKSRYB103K50
C	402	(B,247,153)		CKSRYB103K50
C	403	(A,234,168)		CEAT221M6R3
C	410	(B,49,186)		CKSRYB103K50
C	411	(B,51,186)		CKSRYB103K50
C	412	(A,42,178)		CEAT470M50
C	418	(B,141,179)		CKSRYB104K16
C	419	(B,103,182)		CKSRYB103K50
C	420	(A,39,185)	ELECT. CAPACITOR	CEAT101M35
C	421	(B,160,169)		CKSRYB104K16
C	441	(B,223,176)		CKSRYB103K50
C	442	(A,239,146)		CEAL470M10
C	451	(B,125,166)		CKSRYB102K50
C	452	(B,103,164)		CKSRYB102K50
C	453	(B,122,166)		CKSRYB102K50
C	454	(B,100,164)		CKSRYB102K50
C	481	(B,140,191)		CCSRCH471J50
C	482	(B,126,201)		CCSRCH221J50
C	483	(B,126,199)		CCSRCH221J50
C	487	(B,83,163)		CKSRYB102K50
C	488	(B,79,163)		CKSRYB102K50
C	489	(B,75,163)		CKSRYB102K50
C	490	(A,22,149)		CKSRYB102K50

J ROTARY ENCODER ASSY

MISCELLANEOUS

S	457	(A,300,183)	SWITCH	VSG1024
S	512	(A,288,223)	ROTARY ENCODER (JOG)	XSX3008
S	513	(A,288,152)	ROTARY ENCODER	XSX3005
S	514	(A,257,216)	SWITCH	VSG1024
S	515	(A,270,183)	SWITCH	VSG1024
S	516	(A,285,183)	SWITCH	VSG1024
	511	(A,257,172)	CABLE HOLDER(7P)	51063-0705

RESISTORS

R	513	(B,270,190)		RS1/16S162J
R	514	(B,280,185)		RS1/16S272J
R	515	(B,295,185)		RS1/16S512J

K POWER KEY ASSY

MISCELLANEOUS

D	501	(A,14,183)	LED(BLUE)	SLR343BC4T(JKLM)
S	501	(A,12,174)	SWITCH	VSG1024
S	502	(A,20,221)	SWITCH	VSG1024
S	503	(A,32,218)	SWITCH	VSG1024
S	504	(A,47,218)	SWITCH	VSG1024
	501	(A,47,210)	CABLE HOLDER(3P)	51063-0305

RESISTORS

R	501	(B,12,189)		RS1/16S391J
R	502	(B,7,171)		RS1/16S162J
R	503	(A,15,228)		RD1/4PU272J
R	504	(A,30,228)		RD1/4PU512J

L S.VIDEO ASSY

MISCELLANEOUS

IC	351	(B,149,59)	VIDEO SW IC	NJM2595M
IC	352	(B,149,20)	VIDEO SW IC	NJM2595M
IC	353	(B,206,64)	LOGIC IC	TC74HC4053AF
IC	354	(B,182,72)	VIDEO IC	NJM2581M

Mark	No.		Description	Part No.
IC	355	(A,199,15)	IC	LA7213
Q	101	(B,198,78)	TRANSISTOR	2SC4081
Q	102	(B,198,82)	TRANSISTOR	2SC4081
Q	103	(B,190,55)	TRANSISTOR	2SC4081
Q	104	(B,194,56)	TRANSISTOR	2SC4081
Q	359	(B,206,16)	TRANSISTOR	RT1N241M
D	309	(B,202,33)	DIODE	1SS355
D	310	(B,201,39)	DIODE	1SS355
D	355	(B,140,67)	DIODE	1SS355
D	356	(B,162,61)	DIODE	1SS355
D	357	(B,154,39)	DIODE	1SS355
D	358	(B,142,67)	DIODE	1SS355
D	361	(B,169,56)	DIODE	DAN202U
D	362	(B,166,54)	DIODE	DAN202U
D	365	(B,209,17)	DIODE	1SS355
D	380	(B,191,31)	DIODE	1SS355
L	100	(B,193,49)	CHIP COIL	LCYA120J2520
L	101	(B,197,51)	CHIP COIL	LCYA120J2520
CN351		(A,219,40)	10PJUMPER CONNECTOR	52147-1010
CN356		(A,219,77)	CONNECTOR	CKS3372
CN359			MINI DIN SOCKET	XKB3065

RESISTORS

R	351	(B,125,12)		RS1/16S750J
R	352	(B,129,13)		RS1/16S750J
R	353	(B,125,31)		RS1/16S750J
R	354	(B,129,27)		RS1/16S750J
R	355	(B,125,42)		RS1/16S750J
R	356	(B,128,45)		RS1/16S750J
R	357	(B,161,57)		RS1/16S102J
R	358	(B,161,55)		RS1/16S102J
R	360	(B,162,52)		RS1/16S102J
R	361	(B,162,66)		RS1/16S102J
R	362	(B,160,51)		RS1/16S102J
R	363	(B,169,30)		RS1/16S102J
R	364	(B,167,30)		RS1/16S102J
R	365	(B,164,30)		RS1/16S102J
R	367	(B,171,30)		RS1/16S102J
R	368	(B,159,41)		RS1/16S102J
R	369	(B,160,36)		RS1/16S750J
R	370	(B,150,71)		RS1/16S750J
R	371	(B,145,29)		RS1/16S750J
R	372	(B,146,69)		RS1/16S750J
R	374	(B,156,56)		RS1/16S750J
R	375	(B,132,10)		RS1/16S101J
R	376	(B,129,17)		RS1/16S101J
R	377	(B,132,23)		RS1/16S101J
R	378	(B,130,30)		RS1/16S101J
R	379	(B,135,39)		RS1/16S101J
R	380	(B,128,49)		RS1/16S101J
R	389	(B,138,48)		RS1/16S750J
R	393	(B,185,23)		RS1/16S331J
R	394	(B,185,26)		RS1/16S224J
R	395	(B,188,15)		RS1/16S472J
R	396	(B,203,20)		RS1/16S223J
R	400	(B,135,65)		RS1/16S750J
R	822	(B,202,73)		RS1/16S332J
R	823	(B,199,73)		RS1/16S103J
R	824	(B,195,75)		RS1/16S102J
R	827	(B,193,75)		RS1/16S102J
R	828	(B,178,80)		RS1/16S750J
R	829	(B,163,81)		RS1/16S750J
R	830	(B,201,48)		RS1/16S561J
R	831	(B,201,52)		RS1/16S561J
R	832	(B,188,64)		RS1/16S102J
R	833	(B,186,61)		RS1/16S102J
R	840	(B,160,60)		RS1/16S750J
R	850	(B,196,83)		RS1/16S100J
R	851	(B,201,79)		RS1/16S100J

CAPACITORS

C	351	(B,160,22)		CKSRYB104K25
C	352	(A,123,9)		CEAT470M25
C	353	(B,127,20)		CKSRYB104K25
C	354	(B,141,12)		CKSRYB104K25
C	355	(A,132,20)		CEAT470M25
C	356	(B,126,38)		CKSRYB104K25
C	357	(B,157,65)		CKSRYB104K25
C	358	(A,131,35)		CEAT470M25
C	359	(B,126,54)		CKSRYB104K25
C	361	(A,144,11)		CEAT470M25
C	362	(A,157,26)		CEAT470M25
C	363	(A,157,68)		CEAT470M25
C	366	(A,145,46)		CEAT470M25
C	367	(B,142,52)		CKSRYB104K25
C	368	(B,128,58)		CKSRYB221K50
C	369	(B,126,63)		CKSRYB221K50
C	370	(B,157,36)		CKSRYB221K50
C	371	(B,158,72)		CKSRYB221K50
C	372	(B,115,61)		CKSRYB103K50
C	373	(B,120,29)		CKSRYB103K50
C	381	(B,134,10)		CCSRCH470J50
C	382	(B,132,16)		CCSRCH470J50
C	383	(B,134,19)		CCSRCH470J50
C	384	(B,135,28)		CCSRCH470J50
C	385	(B,135,37)		CCSRCH470J50
C	386	(B,132,44)		CCSRCH470J50
C	387	(B,174,67)		CKSRYB104K25
C	388	(B,176,75)		CKSRYB104K25
C	393	(A,173,77)		CEAT101M16
C	394	(A,177,60)		CEAT101M16
C	395	(B,199,61)		CKSRYB104K25
C	396	(B,196,66)		CKSRYB104K25
C	397	(A,180,20)		CEAT3R3M50
C	398	(A,185,18)		CEAT101M10
C	399	(A,194,29)		CEAT101M10
C	404	(A,183,59)		CEAT101M10
C	405	(B,196,70)		CKSRYB104K25
C	1916	(B,197,46)		CCSRCH120J50
C	1917	(B,191,46)		CCSRCH120J50
C	1918	(B,190,50)		CCSRCJ3R0C50
C	1919	(B,195,51)		CCSRCJ3R0C50
C	1920	(B,188,50)		CCSRCH330J50
C	1921	(B,199,56)		CCSRCH330J50
C	1924	(B,168,80)		CKSRYB221K50
C	1925	(B,153,81)		CKSRYB221K50

M TRANS4 ASSY

MISCELLANEOUS

Mark	No.		Description	Part No.
⚠	IC	357	(A,85,236) PROTECTOR(800MA)	AEK7008
	D	363	(A,88,223) DIODE	S5688G
	J	22	JUMPER WIRE	D20PYY0330E
		891	(A,70,221) 3P CABLE HOLDER	51048-0300

CAPACITORS

	C	406	(A,84,220) ELECT. CAPACITOR	CEAT471M35

N REGULATOR ASSY

MISCELLANEOUS

⚠	IC	801	(A,147,89) REGULATOR IC	TA7812S
⚠	IC	802	(A,164,89) REGULATOR IC	TA79012S
⚠	IC	808	(A,181,89) REGULATOR IC	BA50BC0T
⚠	IC	809	(A,213,89) REGULATOR IC	NJM2389F
	D	810	(A,172,94) DIODE	MTZJ6R2(B)
	D	814	(A,193,103) DIODE	MTZJ6R2(B)
	CN800		(A,194,113) 11PJUMPER CONNECTOR	52147-1110

RESISTORS

	R	801	(A,136,95) METAL OXIDE RESISTOR	RS3LMF331J
	R	809	(B,205,98)	RS1/16S102J
	R	810	(B,212,94)	RS1/16S302J
	R	820	(B,210,94)	RS1/16S151J

CAPACITORS

	C	803	(B,147,97)	CKSRYB103K25
	C	804	(B,166,97)	CKSRYB103K25
	C	805	(A,147,105)	CEJQ101M16
	C	806	(A,159,99)	CEAT101M16
	C	809	(A,217,104) ELECT. CAPACITOR	CEATR33M50
	C	810	(A,214,98)	CEAT101M10
	C	818	(B,182,95)	CKSRYB103K25
	C	819	(A,176,95)	CEAT101M10

O COMP VIDEO ASSY (VSX-917V)

MISCELLANEOUS

	IC	301	(B,74,73) VIDEO SW IC	NJM2595M
	IC	851	(B,37,26) CHARACTER GENERATOR	PDC132A
	IC	852	(B,26,85) LOGIC IC	TC74HC4053AF
	IC	853	(B,43,82) LOGIC IC	TC4094BFN
	IC	854	(B,56,42) VIDEO SW IC	MM1508XN
⚠	Q	301	(A,52,50) TRANSISTOR	2SD1858X
⚠	Q	302	(A,64,52) TRANSISTOR	2SB1237X
	Q	303	(B,106,18) TRANSISTOR	2SC5938A
	Q	852	(B,21,32) TRANSISTOR	2SC4081
	Q	853	(B,76,55) TRANSISTOR	2SC4081
	Q	854	(B,32,49) TRANSISTOR	2SC4081
	D	301	(B,36,105) DIODE	1SS355
	D	302	(B,67,69) DIODE	1SS355
	D	303	(B,68,38) DIODE	UDZS6R2(B)
	D	304	(B,74,49) DIODE	UDZS6R2(B)
	D	307	(B,103,72) DIODE	UDZS5R1(B)
	D	308	(B,93,84) DIODE	DAN202U
	D	359	(B,32,17) DIODE	1SS355
	D	360	(B,30,17) DIODE	1SS355
	D	651	(B,9,35) DIODE	DAP202K
	D	653	(B,53,80) DIODE	1SS352
	L	302	(B,111,99) CHIP SOLID INDUCTOR	QTL1013
	L	303	(B,105,99) CHIP SOLID INDUCTOR	QTL1013
	L	304	(B,109,99) CHIP SOLID INDUCTOR	QTL1013
	L	305	(B,103,99) CHIP SOLID INDUCTOR	QTL1013
	L	306	(B,101,99) CHIP SOLID INDUCTOR	QTL1013
	L	853	(B,55,23) CHIP COIL	LCYA330J2520
	L	854	(B,21,38) CHIP COIL	LCTAW120J2520
	J	44	JUMPER WIRE	D20PYY1010E
	JA	305	(A,119,54) PIN JACK(4P)YELLOW	XKB3048
	JA	351	(A,118,77) MINI JACK(4P) /W SW	XKN3015
	JA	352	(A,114,88) JACK	VKB1243
	X	851	(A,53,28) CRYSTAL RESONATOR (14.31818 MHz)	ASS1056
	CN302		(A,69,14) 6P SOCKET	KP200TA6L
	CN306		(A,119,33) 2P PIN JACK	XKB3041
	CN312		(A,75,101) CONNECTOR	CKS3386
	CN313		(A,10,57) CONNECTOR	CKS3380
	CN314		(A,30,105) CONNECTOR POST	B2B-PH
		314	(A,11,91) 10P CABLE HOLDER	51048-1000
		390	(A,17,105) PCB BINDER	VEF1040

RESISTORS

	R	301	(B,72,66)	RS1/16S750J
	R	302	(B,108,34)	RS1/16S750J
	R	303	(B,111,60)	RS1/16S750J
	R	304	(B,104,61)	RS1/16S750J
	R	305	(B,111,46)	RS1/16S750J
	R	306	(B,100,36)	RS1/16S750J
	R	307	(B,90,84)	RS1/16S102J
	R	308	(B,80,81)	RS1/16S102J
	R	309	(B,34,104)	RS1/16S151J
	R	310	(B,82,80)	RS1/16S102J
	R	311	(B,62,69)	RS1/16S102J
	R	312	(B,78,66)	RS1/16S102J
⚠	R	313	(A,59,34) METAL OXIDE RESISTOR	RS3LMF390J
	R	314	(B,53,38)	RS1/16S152J
	R	315	(B,75,46)	RS1/16S152J
⚠	R	316	(A,78,47) METAL OXIDE RESISTOR	RS3LMF390J
	R	317	(B,107,24)	RS1/16S102J
	R	318	(B,102,20)	RS1/16S122J
	R	319	(B,95,27)	RS1/16S472J
	R	390	(B,102,27)	RS1/16S102J
	R	852	(B,66,17)	RS1/16S471J
	R	853	(B,25,21)	RS1/16S103J
	R	854	(B,27,21)	RS1/16S103J
	R	855	(B,48,36)	RS1/16S102J
	R	856	(B,27,31)	RS1/16S512J
	R	857	(B,12,28)	RS1/16S392J
	R	858	(B,24,31)	RS1/16S222J
	R	894	(B,32,94)	RS1/16S0R0J
	R	896	(B,22,70)	RS1/16S750J
	R	897	(B,54,69)	RS1/16S750J
	R	898	(B,73,54)	RS1/16S102J
	R	899	(B,17,38)	RS1/16S561J
	R	901	(B,26,47)	RS1/16S102J
	R	902	(B,83,54)	RS1/16S682J
	R	903	(B,86,57)	RS1/16S103J
	R	904	(B,80,54)	RS1/16S100J
	R	1333	(B,36,78)	RS1/16S0R0J
	R	1335	(B,34,76)	RS1/16S0R0J
	R	1336	(B,15,75)	RS1/16S0R0J
	R	1371		RS1/16S0R0J
	R	1448	(B,27,15)	RS1/16S0R0J

Mark	No.	Description	Part No.
CAPACITORS			
	C 304	(B,74,66)	CKSRYB221K50
	C 305	(B,109,60)	CKSRYB221K50
	C 306	(B,113,44)	CKSRYB221K50
	C 307	(A,94,47)	CEAT470M25
	C 308	(A,99,23)	CEAT470M25
	C 309	(A,99,47)	CEAT470M25
	C 310	(A,82,60)	CEAT101M16
	C 311	(B,74,61)	CKSRYB473K25
	C 313	(B,71,45)	CKSRYB473K25
	C 333	(B,110,18)	CKSRYB331K50
	C 338	(A,86,72)	CEAT101M16
	C 339	(B,85,62)	CKSRYB104K25
	C 340	(B,90,77)	CKSRYB104K25
	C 347	(B,83,72)	CCSRCH470J50
	C 379	(B,112,70)	CKSRYB103K50
	C 851	(A,12,18)	CEAT101M10
	C 852	(A,18,18)	CEAT101M10
	C 853	(B,41,36)	CKSRYB473K25
	C 854	(B,23,21)	CKSRYB473K25
	C 855	(B,49,23)	CCSRCH150J50
	C 856	(B,47,23)	CCSRCH180J50
	C 857	(B,51,22)	CCSRCH240J50
	C 858	(B,55,20)	CCSRCH240J50
	C 859	(B,63,20)	CCSRCH470J50
	C 860	(B,35,35)	CKSRYB473K25
	C 861	(B,38,35)	CKSRYB473K25
	C 862	(B,45,36)	CCSRCH101J50
	C 864	(A,16,95)	CEAT101M10
	C 901	(B,19,38)	CCSRCJ3R0C50
	C 902	(B,19,42)	CCSRCH120J50
	C 903	(B,21,42)	CCSRCH330J50
	C 950	(A,41,40)	CEAT101M16
	C 1360	(B,116,33)	CKSRYB103K50
	C 1362	(B,51,82)	CKSRYB104K25
	C 1363	(B,18,85)	CKSRYB104K25
	C 1364	(B,17,79)	CKSRYB104K25
	C 1367	(A,71,35)	CEAT101M16
	C 1368	(B,50,38)	CKSRYB103K50
	C 1369	(B,46,40)	CKSRYB105K16
	C 1370	(A,92,32) ELECTR.CAPACITOR	CEAT102M10

O VIDEO ASSY (VSX-817)

MISCELLANEOUS

Mark	No.	Description	Part No.
	IC 301	(B,46,32) VIDEO SW IC	NJM2595M
	IC 302	(B,37,76) VIDEO SW IC	NJM2243M
	IC 851	(B,100,70) CHARACTER GENERATOR	PDC132A
⚠	Q 301	(A,86,47) TRANSISTOR	2SD1858X
⚠	Q 302	(A,66,52) TRANSISTOR	2SB1237X
	Q 303	(B,25,83) TRANSISTOR	2SC5938A
	Q 852	(B,72,79) TRANSISTOR	2SC4081
	Q 853	(B,74,75) TRANSISTOR	2SC4081
	D 301	(B,44,40) DIODE	1SS355
	D 302	(B,41,45) DIODE	1SS355
	D 303	(B,82,61) DIODE	UDZS6R2(B)
	D 304	(B,73,59) DIODE	UDZS6R2(B)
	D 307	(B,87,10) DIODE	UDZS5R1(B)
	D 308	(B,60,23) DIODE	DAN202U
	D 359	(B,94,53) DIODE	1SS355
	D 360	(B,96,48) DIODE	1SS355
	D 651	(B,85,74) DIODE	DAP202K
	L 853	(B,100,62) CHIP COIL	LCYA330J2520
	J 44	JUMPER WIRE	D20PYY0910E
	JA305	(A,14,44) PIN JACK(4P)YELLOW	XKB3048
	X 851	(A,102,58) CRYSTAL RESONATOR (14.31818 MHz)	ASS1056
	CN302	(A,64,84) 6P SOCKET	KP200TA6L
	CN303	(A,62,7) CONNECTOR	CKS3378
	CN306	(A,14,65) 2P PIN JACK	XKB3041
	CN310	(A,46,7) CONNECTOR	CKS3372
	CN354	(A,91,6) CONNECTOR POST	B2B-PH
	390	(A,100,7) PCB BINDER	VEF1040
	301	(A,106,12) 9P CABLE HOLDER	51048-0900

RESISTORS

Mark	No.	Description	Part No.
	R 301	(B,34,25)	RS1/16S750J
	R 302	(B,31,60)	RS1/16S750J
	R 303	(B,23,36)	RS1/16S750J
	R 304	(B,49,22)	RS1/16S750J
	R 305	(B,23,50)	RS1/16S750J
	R 306	(B,32,54)	RS1/16S750J
	R 307	(B,56,25)	RS1/16S102J
	R 308	(B,57,29)	RS1/16S102J
	R 309	(B,57,27)	RS1/16S151J
	R 310	(B,57,31)	RS1/16S102J
	R 311	(B,42,23)	RS1/16S102J
	R 312	(B,60,25)	RS1/16S102J
⚠	R 313	(A,85,57) METAL OXIDE RESISTOR	RS3LMF390J
	R 314	(B,84,61)	RS1/16S152J
	R 315	(B,64,59)	RS1/16S152J
⚠	R 316	(A,67,39) METAL OXIDE RESISTOR	RS3LMF390J
	R 317	(B,21,75)	RS1/16S102J
	R 318	(B,27,79)	RS1/16S122J
	R 319	(B,27,77)	RS1/16S472J
	R 383	(B,132,64)	RS1/16S0R0J
	R 390	(B,24,77)	RS1/16S102J
	R 391	(B,20,38)	RS1/16S0R0J
	R 392	(B,30,55)	RS1/16S0R0J
	R 852	(B,101,50)	RS1/16S471J
	R 853	(B,94,47)	RS1/16S103J
	R 854	(B,94,61)	RS1/16S103J
	R 855	(B,107,82)	RS1/16S102J
	R 856	(B,77,79)	RS1/16S272J
	R 857	(B,80,79)	RS1/16S183J
	R 858	(B,70,78)	RS1/16S222J
	R 861	(B,96,20)	RS1/16S0R0J
	R 862	(B,73,33)	RS1/16S0R0J
	R 1905	(B,75,80)	RS1/16S133J
	R 1906	(B,78,82)	RS1/16S103J
	R 1907	(B,70,75)	RS1/16S222J

CAPACITORS

Mark	No.	Description	Part No.
	C 297	(A,31,80) ELECTR.CAPACITOR	CEAT102M10
	C 298	(A,43,80)	CEAT470M16
	C 299	(A,39,69)	CEAT101M16
	C 300	(A,51,69)	CEAT101M16
	C 301	(B,34,66)	CKSRYB104K16
	C 304	(B,33,19)	CKSRYB221K50
	C 305	(B,41,19)	CKSRYB221K50
	C 306	(B,22,54)	CKSRYB221K50
	C 307	(A,31,35)	CEAT470M25

Mark	No.		Description	Part No.
	C	308	(A,52,53)	CEAT470M25
	C	309	(A,32,44)	CEAT470M25
	C	310	(A,54,42)	CEAT101M16
	C	311	(B,82,48)	CKSRYB473K25
	C	313	(B,76,34)	CKSRYB473K25
	C	333	(B,21,81)	CKSRYB331K50
	C	338	(A,60,37)	CEAT101M16
	C	339	(B,45,49)	CKSRYB104K25
	C	340	(B,56,36)	CKSRYB104K25
	C	347	(B,43,43)	CCSRCH470J50
	C	851	(A,83,83)	CEAT101M10
	C	852	(A,93,82)	CEAT101M10
	C	853	(B,102,82)	CKSRYB473K25
	C	854	(B,91,75)	CKSRYB473K25
	C	855	(B,106,54)	CCSRCH150J50
	C	856	(B,103,54)	CCSRCH180J50
	C	857	(B,101,54)	CCSRCH240J50
	C	858	(B,99,54)	CCSRCH240J50
	C	859	(B,99,47)	CCSRCH470J50
	C	860	(B,98,82)	CKSRYB473K25
	C	861	(B,100,82)	CKSRYB473K25
	C	862	(B,105,82)	CCSRCH101J50
	C	867	(A,91,34)	CEAT101M10
	C	1360	(B,18,65)	CKSRYB103K50

P BOARD TO BOARD ASSY

MISCELLANEOUS

	CN315	(A,59,139)	CONNECTOR	CKS3388
	CN316	(A,59,117)	23P PLUG	XKP3071
	CN317	(A,26,139)	CONNECTOR	CKS3374
	CN318	(A,26,117)	9P PLUG	XKP3064

Q DIGITAL INPUT ASSY

MISCELLANEOUS

	F	1901	(B,214,228) INDUCTOR	CTF1295
	JA	1900	(A,206,201) OPT. LINK IN	GP1FAV51RKBF
	JA	1901	(A,220,201) OPT. LINK IN	GP1FAV51RKBF
	JA	1902	(A,234,201) OPT. LINK IN	GP1FAV51TK0F
	KN	1902	(A,249,206) SCREW PLATE	VNE1948
	CN	1902	(A,211,238) CONNECTOR POST	B5B-PH
	CN	1903	(A,229,230) CONNECTOR	VKN1186

RESISTORS

	R	1900	(B,211,215)	RS1/16S101J
	R	1901	(B,214,223)	RS1/16S101J
	R	1902	(B,233,215)	RS1/16S101J

CAPACITORS

	C	1900	(B,205,215)	CKSRYB104K25
	C	1901	(B,217,215)	CKSRYB104K25
	C	1902	(B,235,215)	CKSRYB104K25
	C	1903	(B,211,230)	CKSRYB103K50
	C	1904	(A,208,228)	CEAL101M10
	C	1905	(B,233,232)	CKSRYB104K25
	C	1906	(B,235,232)	CKSRYB103K50
	C	1907	(B,237,232)	CCSRCH101J50
	C	1908	(B,239,232)	CKSRYB102K50
	C	1909	(B,215,234)	CCSRCH101J50

Mark	No.		Description	Part No.

R FRONT VIDEO ASSY

MISCELLANEOUS

	JA	902	(A,167,224) 3P PIN JACK	XKB3063
	CN	901	(A,117,230) CONNECTOR POST	B5B-PH

RESISTORS

	R	901	(B,161,224)	RS1/16S331J
	R	902	(B,176,220)	RS1/16S331J
	R	903	(B,157,224)	RS1/16S474J
	R	904	(B,171,220)	RS1/16S474J
	R	905	(B,135,233)	RS1/16S750J

CAPACITORS

	C	901	(B,164,224)	CCSRCH101J50
	C	902	(B,178,220)	CCSRCH101J50
	C	903	(A,131,237) ELECTR. CAPACITOR	CEAL470M25
	C	906	(B,185,217)	CKSRYB224K16
	C	907	(B,185,213)	CKSRYB471K50
	C	908	(B,185,215)	CKSRYB103K25
	C	909	(B,150,234)	CKSRYB224K16
	C	910	(B,150,236)	CKSRYB471K50
	C	911	(B,150,239)	CKSRYB103K25
	C	915	(B,159,224)	CCSRCH101J50
	C	916	(B,173,220)	CCSRCH101J50

S PRIMARY ASSY

MISCELLANEOUS

⚠	IC	51	(B,236,11)	IC	NJM78L05UA
	Q	51	(B,267,14)	DIGITAL TR(SC-70)	RT1N431M
⚠	D	51	(B,298,20)	BRIDGE DIODE	DF06SA
	D	55	(A,304,21)	DIODE	1SR139-400
	D	56	(A,271,21)	DIODE	1SS133
	D	57	(A,266,25)	DIODE	1SS133
	D	58	(A,314,13)	DIODE	MTZJ5R1(B)
	H	51	(A,231,34)	FUSE CLIP	AKR7001
	H	52	(A,250,34)	FUSE CLIP	AKR7001
	J	52		JUMPER WIRE	D20PYY0410E
	KN	51	(A,318,25)	WRAPPING TERMINAL	VNF1084
	KN	3001	(A,223,117)	SCREW PLATE	VNE1948
⚠	RY	51	(A,271,57)	JOE LOWPOWER RELAY	ASR7013
⚠	T	51	(A,288,56)	STANDBY TRANSFORMER	ATT7043
⚠	CN	51	(A,236,47)	AC CODE SOCKET	RKP1751
⚠		51	(A,252,122)	AC SOCKET 1-P	AKP1060
		55	(A,317,9)	4P CABLE HOLDER	51048-0400

RESISTORS

⚠	R	51	(A,318,37)	RESISTOR(2.2M, 1/2W)	RCN1080
	R	52	(A,275,11)		RD1/2PM270J
	R	53	(A,307,12)		RD1/4PU332J
	R	54	(A,319,16)		RD1/4PU103J

CAPACITORS

⚠	C	51	(A,261,64)	FILM CAPACITOR	ACE7013
⚠	C	52	(A,265,57)	SAFETY CAPACITOR	XCG3010
	C	53	(A,291,21)	ELECT. CAPACITOR	CEAT102M16
	C	54	(A,300,11)		CEAT470M25
	C	55	(A,307,21)		CKPUYF103Z25
	C	56	(A,311,21)		CKPUYF103Z25
	C	57	(A,314,21)		CKPUYF103Z25

Mark	No.		Description	Part No.

T TRANS1 ASSY

TRANS1 ASSY has no service part.

U FRONT IN ASSY

MISCELLANEOUS

	IC 951	(B,37,70)	DUAL OP-AMP	NJM4565MD
	IC 952	(A,59,63)	IC	TC4066BFN
	Q 951	(A,51,60)	TRANSISTOR	RT1N241M
	Q 952	(B,52,66)	DIGITAL TR(SC-70)	RT1P241M
	D 951	(B,44,73)	DIODE	UDZS5R1(B)
	D 952	(A,38,97)	DIODE	UDZS5R1(B)
	D 953	(A,38,93)	DIODE	UDZS5R1(B)
	D 957	(B,30,59)	DIODE	DAN217U
	L 970	(A,60,38)	COIL	ATH7015
	F 951	(B,60,12)	INDUCTOR	CTF1295
	JA951	(A,80,16)	OPTICAL IN MOD.	GP1FMV51RK0F
	JA952	(A,78,58)	STEREO MINI JACK	XKN3017
	KN951	(A,46,34)	WRAPPING TERMINAL	VNF1084
	CN951	(A,49,19)	CONNECTOR POST	B5B-PH
	CN956	(A,46,97)	CONNECTOR	CKS3376

RESISTORS

	R 951	(B,66,18)		RS1/16S101J
	R 953	(A,38,72)		RS1/16S682J
	R 954	(B,35,62)		RS1/16S101J
	R 955	(A,50,67)		RS1/16S104J
	R 956	(A,68,68)		RS1/16S102J
	R 957	(B,35,58)		RS1/16S104J
	R 958	(A,70,71)		RS1/16S104J
	R 959	(B,43,66)		RS1/16S333J
	R 960	(B,39,62)		RS1/16S472J
	R 961	(B,41,67)		RS1/16S101J
	R 962	(B,32,77)		RS1/16S101J
	R 963	(A,37,81)		RS1/16S104J
	R 966	(B,38,77)		RS1/16S472J
	R 967	(B,36,77)		RS1/16S333J
	R 972	(A,48,70)		RS1/16S102J
	R 979	(B,61,33)		RS1/16S0R0J
	R 980	(B,61,42)		RS1/16S0R0J
	R 981	(A,69,68)		RS1/16S223J
	R 982	(A,69,65)		RS1/16S103J
	R 984	(A,54,60)		RS1/16S103J

CAPACITORS

	C 951	(B,64,12)		CKSRYB104K50
	C 952	(B,35,54)		CKSRYB103K50
	C 953	(B,33,54)		CKSRYB104K50
	C 956	(A,43,68)	CHIP ELECT.CAPACITOR	CEVW100M50
	C 957	(A,52,70)		CKSRYB103K50
	C 958	(A,43,79)	CHIP ELECT.CAPACITOR	CEVW100M50
	C 959	(A,48,67)		CKSRYB471K50
	C 960	(B,33,59)		CCSRCH101J50
	C 962	(A,37,78)		CKSRYB103K50
	C 963	(A,34,104)	CHIP ELECT.CAPACITOR	CEVW100M50
	C 964	(B,34,77)		CCSRCH330J50
	C 965	(B,45,66)		CCSRCH330J50
	C 967	(A,35,67)	CHIP ELECT.CAPACITOR	CEVW100M50
	C 968	(A,32,79)	CHIP ELECT.CAPACITOR	CEVW100M50
	C 969	(B,60,47)		CKSRYB104K16
	C 970	(A,50,46)		CEVW101M16

Mark	No.		Description	Part No.

V HDMI ASSY

MISCELLANEOUS

	IC 101	(A,35,50)	HDMI/DVI CABLE EQ	CXB1442AR
	IC 102	(A,43,33)	IC	TC7MB3257FK
	IC 103	(A,40,11)	I2C BUS REPEATER IC	PCA9515ADP
	IC 401	(A,62,35)	VIDEO DECODER IC	ADV7180BSTZ
	IC 402	(A,76,29)	LOGIC IC	TC7WZU04FU
	IC 701	(A,86,36)	VIDEO ENCODER IC	ADV7172KSTZ
⚠	IC 901	(A,99,18)	REGULATOR IC	NJM2845DL1-33
⚠	IC 902	(A,78,13)	REGULATOR IC	MM1591JF
⚠	IC 911	(A,44,21)	REGULATOR IC	NJM2872BF05
	Q 101	(A,46,65)	CHIP TRANSISTOR	2SB1689
	Q 102	(A,45,58)	DIGITAL TR(SC-70)	RT1N431M
	Q 121	(A,42,39)	TRANSISTOR	RT1N241M
	Q 151	(A,22,70)	TRANSISTOR	RT1N241M
	Q 152	(A,18,51)	TRANSISTOR	RT1N241M
	Q 153	(A,31,72)	DIGITAL TR(SC-70)	RT1P241M
	Q 154	(A,22,48)	DIGITAL TR(SC-70)	RT1P241M
	Q 155	(A,29,69)	TRANSISTOR	RT1N241M
	Q 156	(A,22,51)	TRANSISTOR	RT1N241M
	Q 451	(A,100,55)	CHIP TRANSISTOR	HN1C01FU
	Q 731	(A,75,58)	TRANSISTOR	2SA1576A
	Q 741	(A,78,53)	TRANSISTOR	2SA1576A
	Q 751	(A,83,58)	TRANSISTOR	2SA1576A
	Q 761	(A,86,53)	TRANSISTOR	2SA1576A
	Q 771	(A,91,58)	TRANSISTOR	2SA1576A
	Q 781	(A,94,53)	TRANSISTOR	2SA1576A
	D 381	(A,106,60)	DIODE	UDZS5R1(B)
	L 101	(A,45,67)	CHIP BEADS	ATL7010
⚠	L 351	(A,24,11)	COIL	ATH7022
⚠	L 352	(A,24,15)	COIL	ATH7022
⚠	L 353	(A,24,18)	COIL	ATH7022
⚠	L 354	(A,24,22)	COIL	ATH7022
	L 401	(A,64,16)	CHIP BEADS	ATL7010
	L 402	(A,74,41)	CHIP SOLID INDUCTOR	QTL1013
	L 403	(A,54,15)	CHIP BEADS	ATL7010
	L 404	(A,61,59)	CHIP BEADS	ATL7010
	L 417	(A,72,30)	CHIP SOLID INDUCTOR	QTL1013
	L 701	(A,104,46)	CHIP BEADS	ATL7010
	L 702	(A,102,46)	CHIP BEADS	ATL7010
	L 1001	(A,94,24)	CHIP BEADS	ATL7010
	L 1002	(A,99,23)	CHIP BEADS	ATL7010
	JA101	(A,15,63)	HDMI CONNECTOR	AKP7210
	JA102	(A,15,41)	HDMI CONNECTOR	AKP7210
	JA301	(A,15,19)	HDMI CONNECTOR	AKP7210
	X 401	(A,74,21)	CRYSTAL RESONATOR (28.63636 MHz)	ASS7069
	CN1001	(A,103,64)	9P SOCKET	XKP3075
	CN1002	(A,69,64)	23P SOCKET	XKP3082
	CN1003	(A,110,21)	9P CONNECTOR	52044-0945

RESISTORS

	R 101	(A,28,44)		RS1/16S102J
	R 102	(A,40,43)		RS1/16S4701F
	R 109	(A,43,60)		RS1/16S332J
	R 110	(A,42,57)		RS1/16S682J
	R 111	(A,46,61)		RS1/10S181J
	R 115	(A,40,57)		RS1/16S103J

Mark	No.		Description	Part No.
	R	121	(A,39,39)	RS1/16S473J
	R	122	(A,44,14)	RS1/16S0R0J
	R	123	(A,45,16)	RS1/16S103J
A	R	124	(A,45,15)	RS1/16S103J
	R	125	(A,44,10)	RS1/16S0R0J
	R	129	(A,44,12)	RS1/16S0R0J
	R	130	(A,44,11)	RS1/16S0R0J
	R	151	(A,28,72)	RS1/16S102J
	R	152	(A,18,53)	RS1/16S102J
	R	153	(A,25,71)	RS1/16S473J
	R	154	(A,39,26)	RS1/16S473J
	R	191	(A,25,74)	RS1/16S0R0J
	R	192	(A,25,73)	RS1/16S0R0J
	R	351	(A,35,12)	RS1/16S332J
B	R	352	(A,35,10)	RS1/16S332J
	R	386	(A,103,61)	RS1/16S473J
	R	389	(A,105,61)	RS1/16S102J
	R	391	(A,23,30)	RS1/16S0R0J
	R	392	(A,23,28)	RS1/16S0R0J
	R	403	(A,61,24)	RESISTOR ARRAY RAB4CQ470J
	R	404	(A,63,23)	RS1/16S470J
	R	405	(A,70,30)	RS1/16S470J
	R	406	(A,68,43)	RS1/10S0R0J
	R	407	(A,50,42)	RS1/10S0R0J
C	R	408	(A,73,36)	RS1/16S132J
	R	409	(A,72,36)	RS1/16S391J
	R	410	(A,74,48)	RS1/10S0R0J
	R	411	(A,49,57)	RS1/10S0R0J
	R	412	(A,50,38)	RS1/16S332J
	R	413	(A,47,37)	RS1/16S103J
	R	414	(A,76,26)	RS1/16S105J
	R	415	(A,72,26)	RS1/16S151J
	R	416	(A,73,33)	RS1/16S101J
	R	419	(A,50,35)	RS1/16S470J
	R	420	(A,50,34)	RS1/16S470J
D	R	421	(A,53,31)	RESISTOR ARRAY RAB4CQ470J
	R	424	(A,51,38)	RS1/16S682J
	R	451	(A,101,51)	RS1/16S103J
	R	452	(A,101,49)	RS1/16S222J
	R	453	(A,104,55)	RS1/16S103J
	R	454	(A,101,48)	RS1/16S222J
	R	702	(A,93,32)	RS1/16S103J
	R	704	(A,95,32)	RS1/16S103J
	R	705	(A,96,32)	RS1/16S103J
	R	706	(A,98,32)	RS1/16S103J
	R	707	(A,95,36)	RS1/16S470J
E	R	708	(A,94,38)	RS1/16S470J
	R	709	(A,94,40)	RS1/16S1201F
	R	710	(A,94,41)	RS1/16S1201F
	R	711	(A,77,44)	RS1/16S1201F
	R	712	(A,76,44)	RS1/16S1201F
	R	713	(A,76,40)	RS1/16S470J
	R	714	(A,79,40)	RS1/16S103J
	R	716	(A,77,37)	RS1/16S103J
	R	718	(A,76,37)	RS1/16S103J
	R	719	(A,75,34)	RS1/16S332J
	R	720	(A,77,34)	RS1/16S682J
F	R	721	(A,80,31)	RS1/16S470J
	R	731	(A,79,48)	RS1/16S1500F
	R	732	(A,78,50)	RS1/16S0R0J

Mark	No.		Description	Part No.
	R	733	(A,78,60)	RS1/16S102J
	R	741	(A,82,48)	RS1/16S1500F
	R	742	(A,81,50)	RS1/16S0R0J
	R	743	(A,80,55)	RS1/16S102J
	R	751	(A,86,48)	RS1/16S1500F
	R	752	(A,85,50)	RS1/16S0R0J
	R	753	(A,86,60)	RS1/16S102J
	R	761	(A,89,48)	RS1/16S1500F
	R	762	(A,88,50)	RS1/16S3R3J
	R	763	(A,88,55)	RS1/16S102J
	R	771	(A,93,48)	RS1/16S1500F
	R	772	(A,92,50)	RS1/16S3R3J
	R	773	(A,94,60)	RS1/16S102J
	R	781	(A,96,48)	RS1/16S1500F
	R	782	(A,95,50)	RS1/16S3R3J
	R	783	(A,96,55)	RS1/16S102J
	R	901	(A,82,19)	RS1/10S0R0J
	R	911	(A,41,25)	RS1/16S101J
	R	1101	(A,99,60)	RS1/10S0R0J
	R	1102	(A,70,60)	RS1/10S0R0J

CAPACITORS

	C	101	(A,28,42)	CKSRYB104K16
	C	102	(A,40,42)	CKSRYB104K16
	C	103	(A,42,50)	CKSRYB104K16
	C	104	(A,38,67)	CEJQ101M16
	C	105	(A,39,57)	CKSRYB104K16
	C	106	(A,30,57)	CKSRYB104K16
	C	107	(A,28,55)	CKSRYB104K16
	C	108	(A,28,50)	CKSRYB104K16
	C	109	(A,28,45)	CKSRYB104K16
	C	121	(A,39,33)	CKSRYB104K16
	C	125	(A,41,14)	CKSRYB104K16
	C	351	(A,22,26)	CKSRYB104K16
	C	401	(A,53,21)	CEJQ101M16
	C	402	(A,59,27)	CKSRYB104K16
	C	403	(A,52,26)	CKSRYB104K16
	C	404	(A,63,27)	CKSRYB104K16
	C	405	(A,70,35)	CKSRYB104K16
	C	406	(A,76,24)	CCSRCH8R0D50
	C	407	(A,72,24)	CCSRCH8R0D50
	C	408	(A,73,29)	CKSRYB104K16
	C	409	(A,72,39)	CHIP CAPACITOR CKSRYB823K25
	C	410	(A,71,39)	CKSRYB103K50
	C	411	(A,71,42)	CKSRYB471K50
	C	412	(A,72,43)	CKSQYB225K10
	C	413	(A,69,48)	CKSRYB104K16
	C	414	(A,66,48)	CKSRYB104K16
	C	415	(A,62,45)	CKSRYB104K16
	C	416	(A,63,47)	CKSRYB104K16
	C	417	(A,62,47)	CKSRYB104K16
	C	418	(A,60,43)	CKSRYB104K16
	C	419	(A,58,54)	CEJQ101M16
	C	420	(A,58,45)	CKSRYB104K16
	C	421	(A,57,45)	CKSRYB104K16
	C	422	(A,55,45)	CKSRYB104K16
	C	423	(A,59,13)	CEJQ101M16
	C	424	(A,61,18)	CKSRYB104K16
	C	425	(A,53,44)	CKSRYB104K16
	C	426	(A,53,38)	CKSRYB103K50

Mark No.	Description	Part No.
C 427	(A,54,34)	CKSRYB104K16
C 451	(A,101,52)	CCSRCH101J50
C 452	(A,103,55)	CCSRCH101J50
C 701	(A,107,39)	CEJQ101M16
C 702	(A,107,45)	CKSRYB104K16
C 703	(A,89,29)	CKSRYB104K16
C 704	(A,93,36)	CKSRYB104K16
C 705	(A,94,43)	CKSRYB104K16
C 706	(A,89,45)	CKSRYB104K16
C 707	(A,86,45)	CKSRYB104K16
C 708	(A,83,45)	CKSRYB104K16
C 709	(A,77,46)	CKSRYB104K16
C 710	(A,100,45)	CKSRYB105K16
C 711	(A,100,39)	CEJQ101M16
C 712	(A,79,44)	CKSRYB104K16
C 713	(A,78,34)	CKSRYB103K50
C 714	(A,79,34)	CKSRYB104K16
C 731	(A,74,60)	CKSRYB104K16
C 741	(A,77,55)	CKSRYB104K16
C 751	(A,82,60)	CKSRYB104K16
C 761	(A,85,55)	CKSRYB104K16
C 771	(A,90,60)	CKSRYB104K16
C 781	(A,93,55)	CKSRYB104K16
C 901	(A,92,20)	CKSRYB105K16
C 902	(A,92,16)	CKSQYB225K10
C 904	(A,80,17)	CKSRYB105K16
C 905	(A,76,10)	CKSRYB471K50
C 906	(A,77,17)	CKSQYB225K10
C 911	(A,41,20)	CKSRYB104K16
C 912	(A,46,22)	CKSRYB103K50
C 913	(A,44,24)	CKSQYB225K10
C 1001	(A,97,27)	CKSRYB104K16
C 1002	(A,102,28)	CEJQ101M16
C 1012	(A,104,25)	CKSRYB104K16
C 1013	(A,110,18)	CKSRYB102K50

W SIRIUS ASSY

MISCELLANEOUS

D 7301	(B,10,34) DIODE	UDZS6R2(B)
D 7302	(B,8,34) DIODE	UDZS6R2(B)
D 7303	(B,36,38) DIODE	UDZS6R2(B)
D 7304	(B,33,38) DIODE	UDZS6R2(B)
D 7305	(B,34,30) DIODE	UDZS6R2(B)
D 7306	(B,32,30) DIODE	UDZS6R2(B)
D 7307	(B,6,33) DIODE	UDZS6R2(B)
JA 7001	(A,25,55) SOCKET	BKP1127
KN 7302	(A,40,55) SCREW PLATE	VNE1948
CN 7301	(A,17,14) CONNECTOR	CKS3374

RESISTORS

R 7301	(B,39,39)	RS1/16S331J
R 7302	(B,10,40)	RS1/16S331J
R 7307	(B,40,30)	RS1/16S473J
R 7308	(B,36,30)	RS1/16S473J
R 7321	(B,21,8)	RS1/16S104J
R 7322	(B,18,8)	RS1/16S104J
R 7323	(B,6,26)	RS1/16S0R0J
R 7324	(B,21,27)	RS1/16S0R0J

CAPACITORS

Mark No.	Description	Part No.
C 7305	(A,10,29)	CEAT100M50
C 7306	(A,21,31)	CEAT100M50

6. ADJUSTMENT

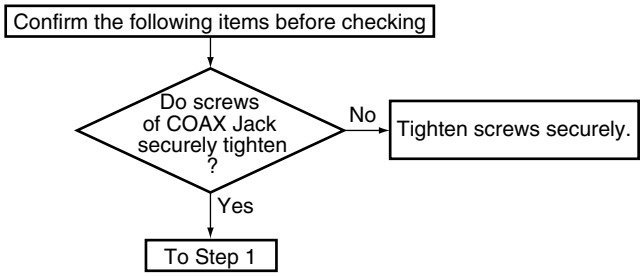
There is no information to be shown in this chapter.

7. GENERAL INFORMATION
7.1 DIAGNOSIS
7.1.1 DSP TROUBLESHOOTING

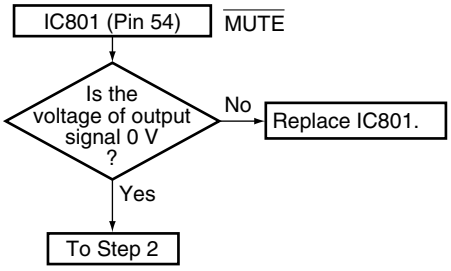
■ Troubleshooting for all destination

- When a sound is not out in the multi-CH signal playback mode or surround mode with the digital signal input. (SurroundBack is not output by setting.)
- Suppose CR to be poor contact and that is not damaged.
- This shows failure analysis of DSP Assy.

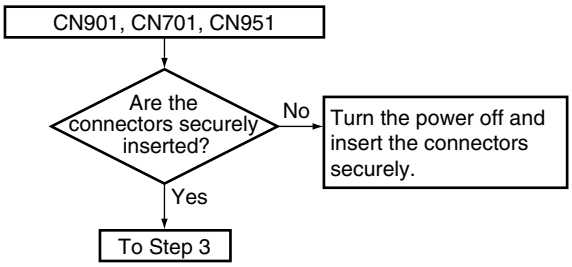
Step 0: Preliminary confirmation



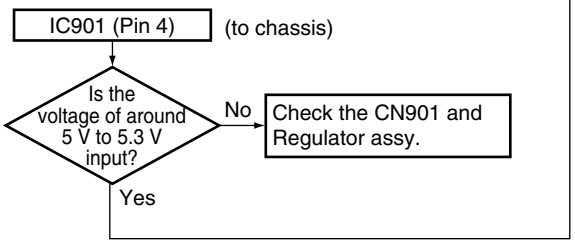
Step 1: MUTE pin

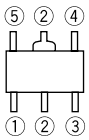


Step 2: BtoB connector

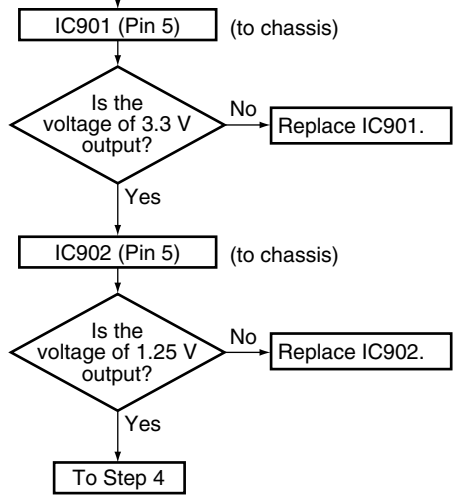


Step 3: Regulator IC

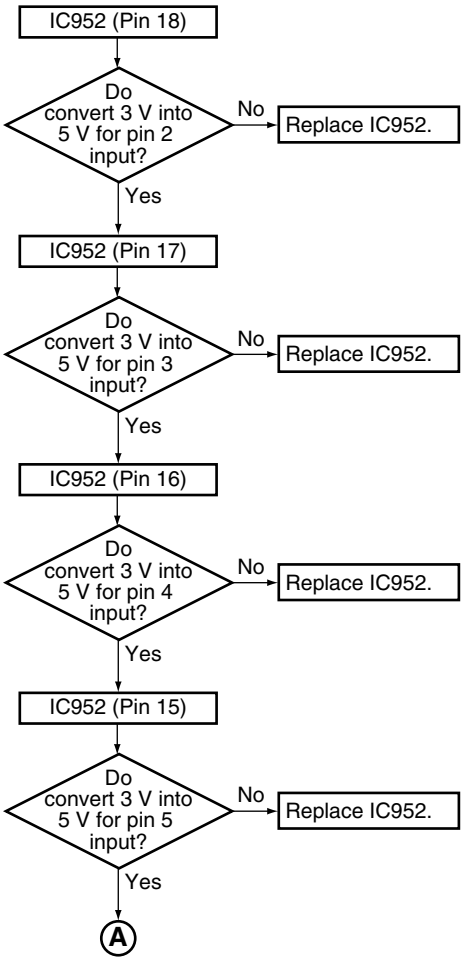


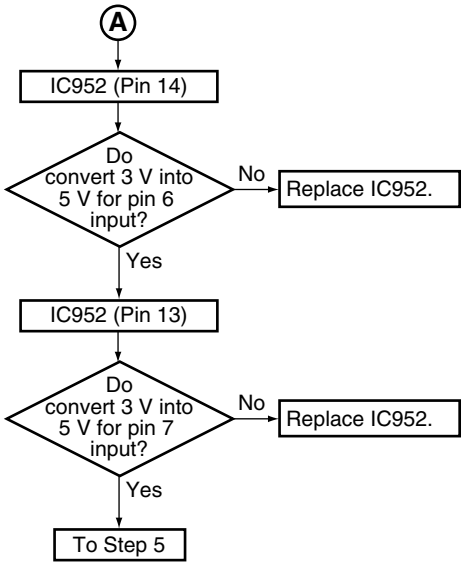


Part shape and Pin arrangement of IC901 and IC902

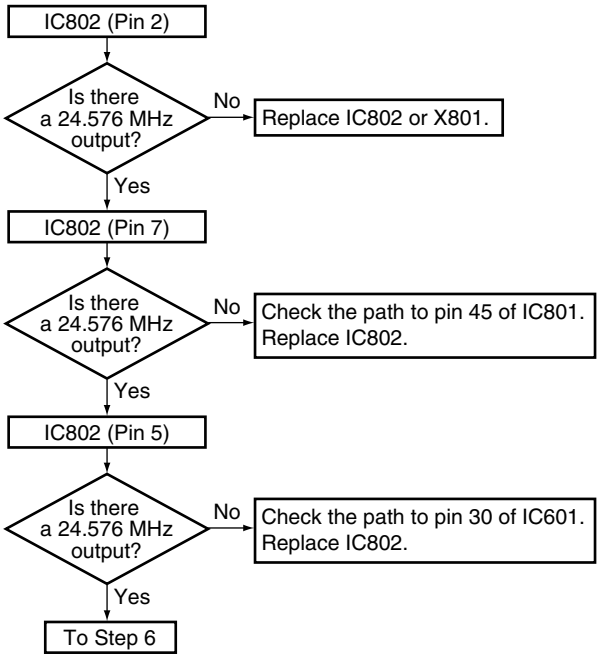


Step 4: 3 V to 5 V conversion



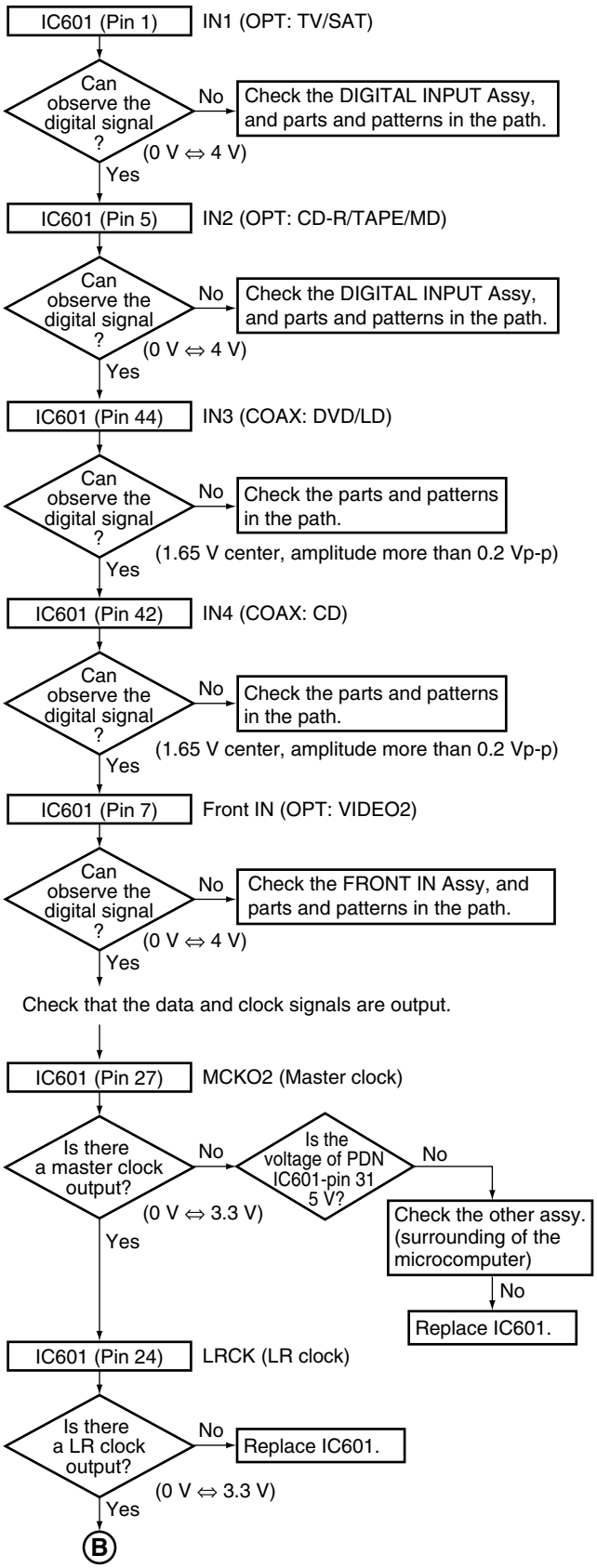


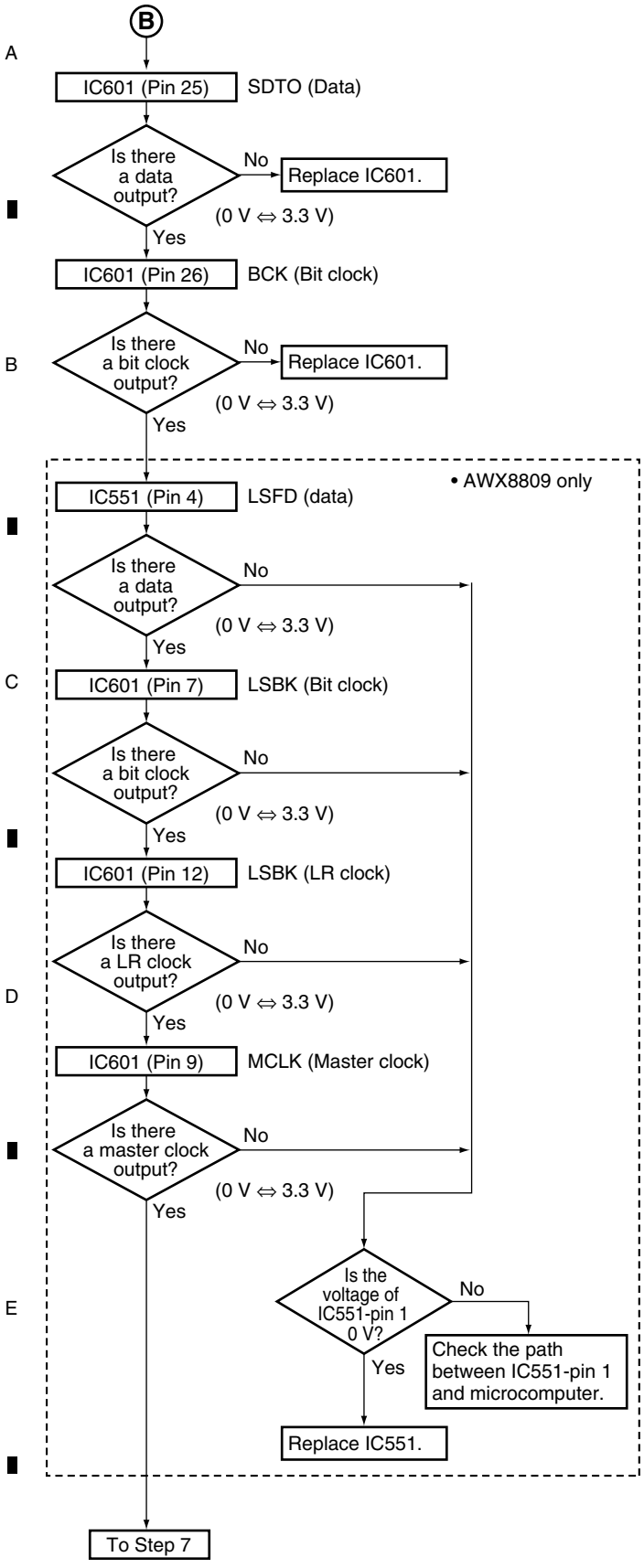
Step 5: X'tal



Step 6: DIR

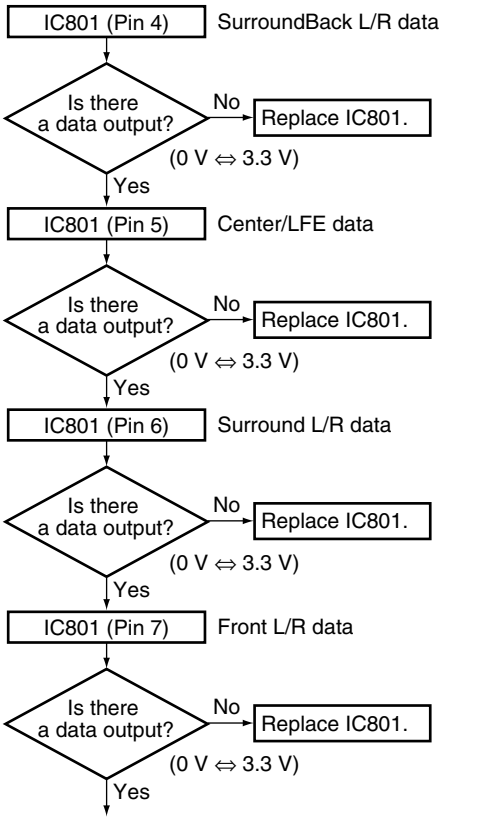
Check that the SPDIF signal is output.
Check that changes by pulling out and inserting the digital input lines.


IC601 (Pin 1)
IN1 (OPT: TV/SAT)
Can observe the digital signal ?
No
Check the DIGITAL INPUT Assy, and parts and patterns in the path.
(0 V ⇔ 4 V)
Yes
IC601 (Pin 5)
IN2 (OPT: CD-R/TAPE/MD)
Can observe the digital signal ?
No
Check the DIGITAL INPUT Assy, and parts and patterns in the path.
(0 V ⇔ 4 V)
Yes
IC601 (Pin 44)
IN3 (COAX: DVD/LD)
Can observe the digital signal ?
No
Check the parts and patterns in the path.
(1.65 V center, amplitude more than 0.2 Vp-p)
Yes
IC601 (Pin 42)
IN4 (COAX: CD)
Can observe the digital signal ?
No
Check the parts and patterns in the path.
(1.65 V center, amplitude more than 0.2 Vp-p)
Yes
IC601 (Pin 7)
Front IN (OPT: VIDEO2)
Can observe the digital signal ?
No
Check the FRONT IN Assy, and parts and patterns in the path.
(0 V ⇔ 4 V)
Yes
Check that the data and clock signals are output.
IC601 (Pin 27)
MCKO2 (Master clock)
Is there a master clock output?
No
Is the voltage of PDN IC601-pin 31 5 V?
No
Check the other assy. (surrounding of the microcomputer)
No
Replace IC601.
(0 V ⇔ 3.3 V)
Yes
IC601 (Pin 24)
LRCK (LR clock)
Is there a LR clock output?
No
Replace IC601.
(0 V ⇔ 3.3 V)
Yes
B

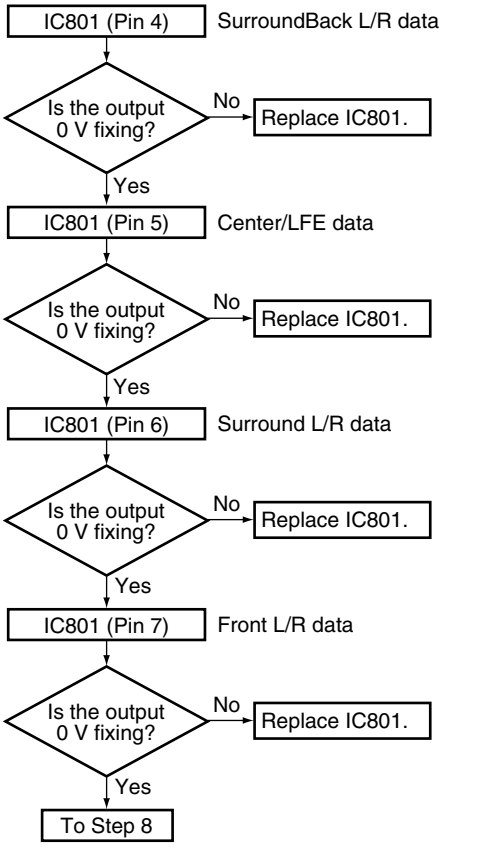


Step 7: DSP output (digital)

Digital output of each CH when inputting the digital signal with audio.

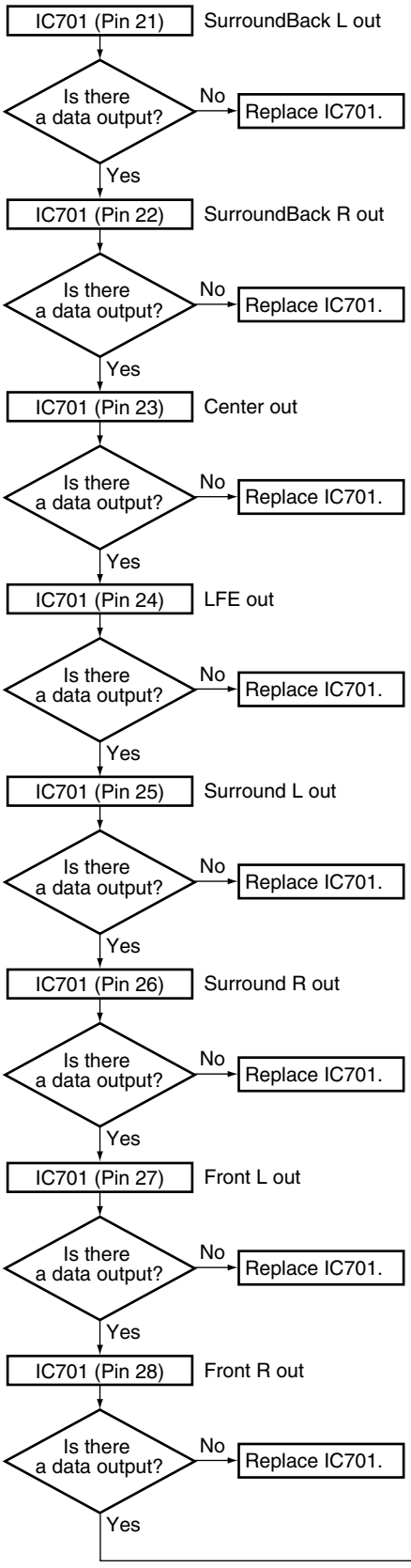


Digital output of each CH when inputting the digital signal (-∞ dB (no audio)).

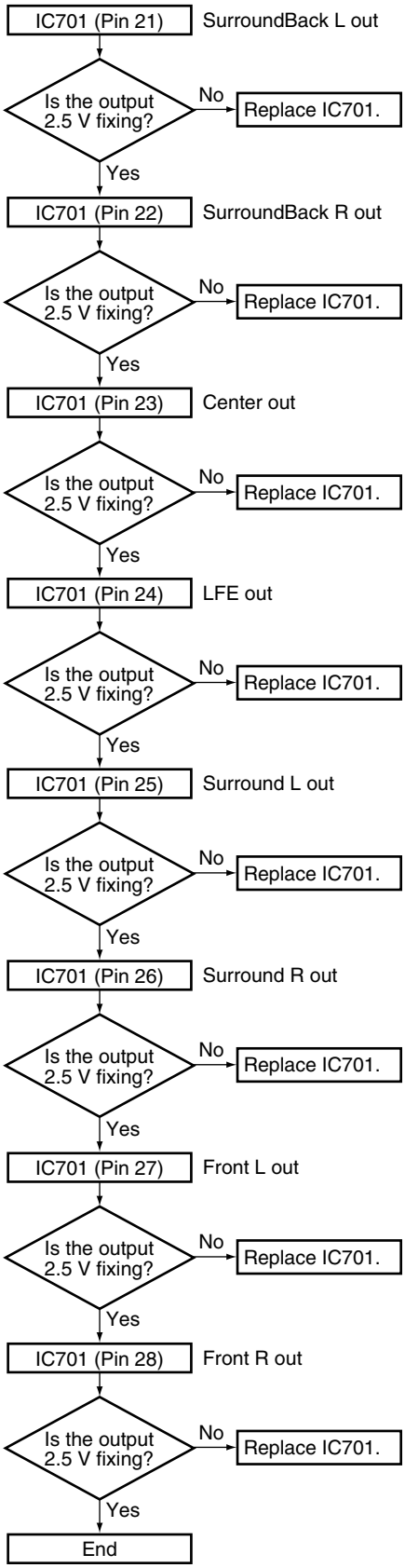


Step 8: Codec output (analog)

Analog output of each CH when inputting the digital signal with audio.



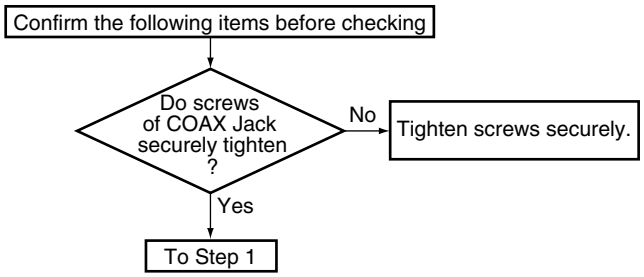
Analog output of each CH when inputting the digital signal (-∞ dB (no audio)).



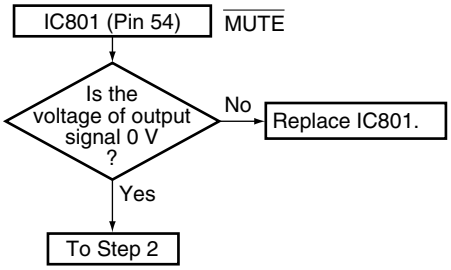
■ Troubleshooting in the XM mode (AWX8809 only)

- When a sound is not output in the XM antenna input. (SurroundBack is not output by setting.)
- Suppose CR to be poor contact and that is not damaged.
- This shows failure analysis of DSP Assy.

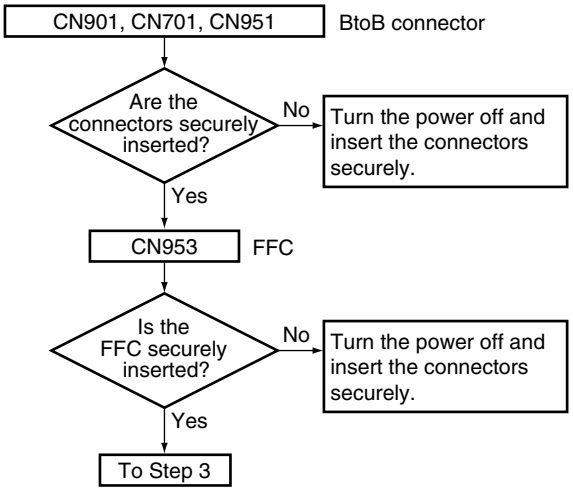
Step 0: Preliminary confirmation



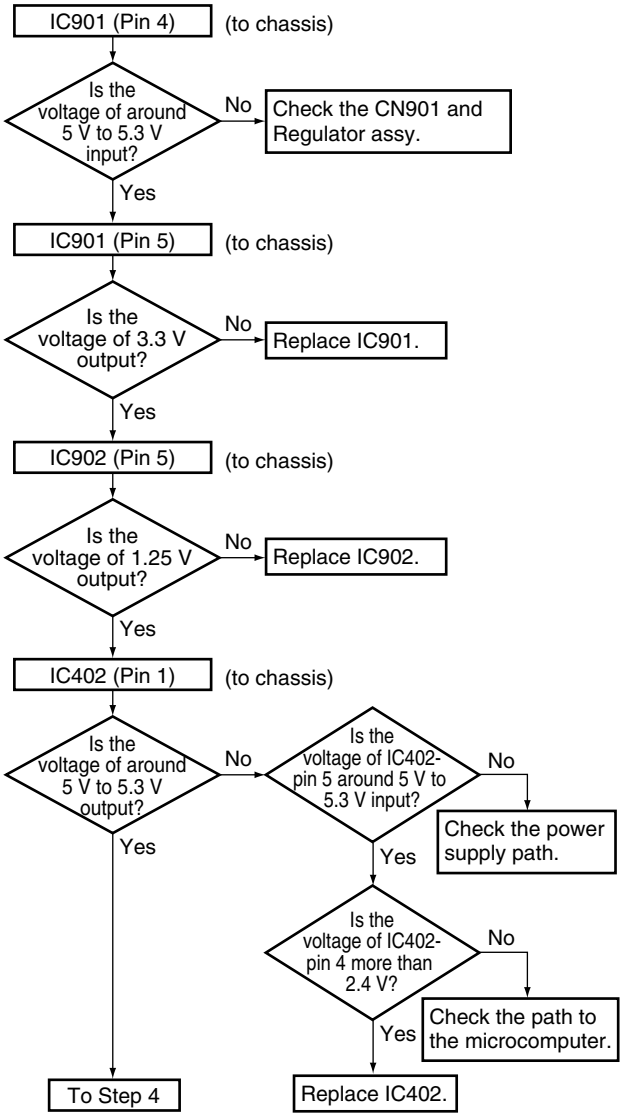
Step 1: MUTE pin

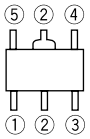


Step 2: BtoB connector and FFC



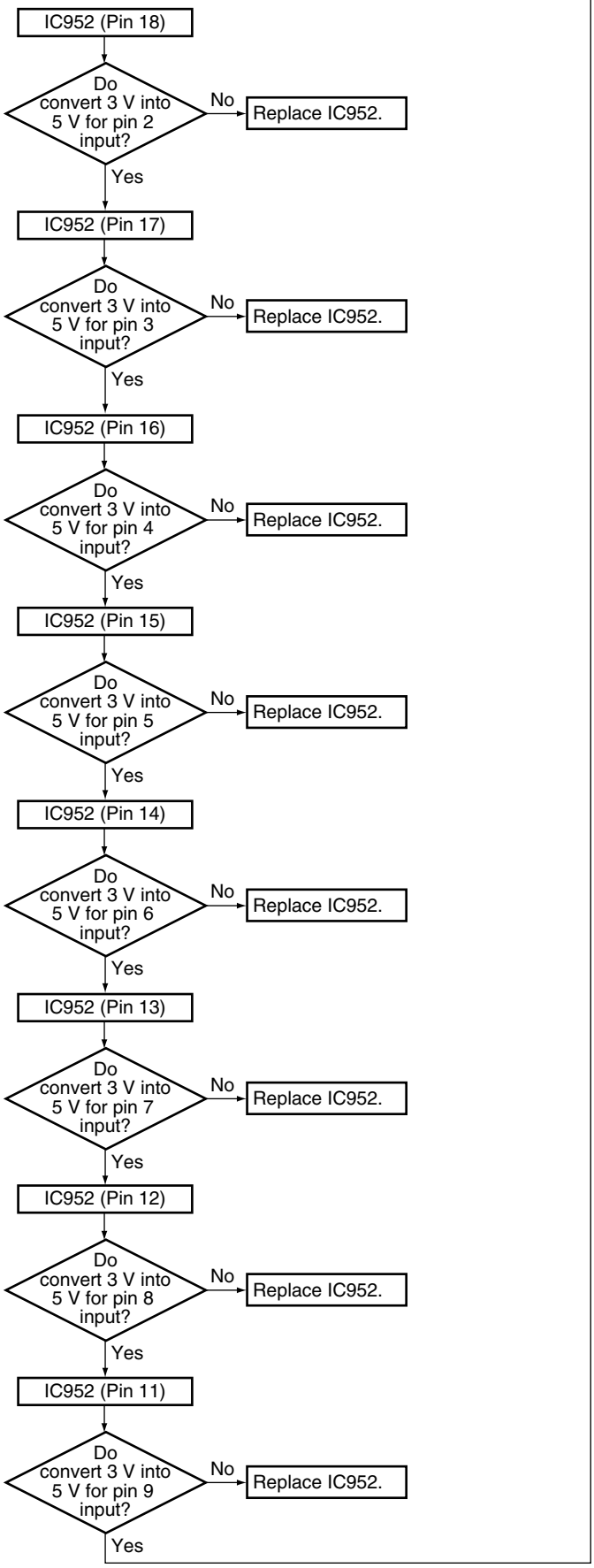
Step 3: Regulator IC

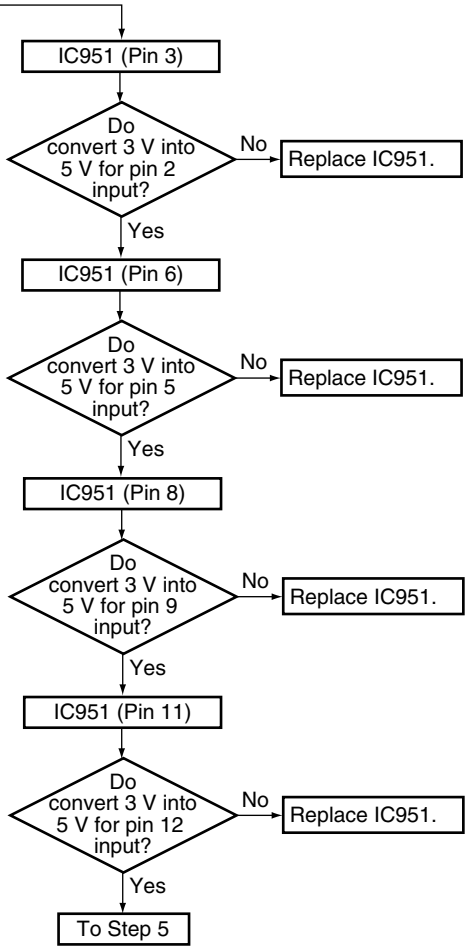




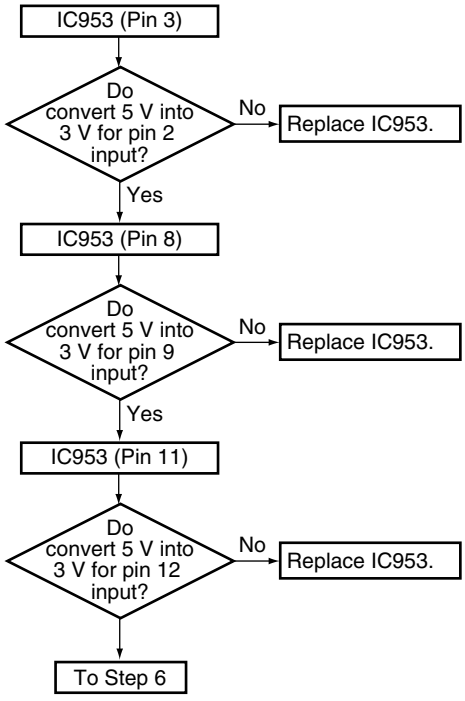
Part shape and Pin arrangement of IC901 and IC902

Step 4: 3 V to 5 V conversion

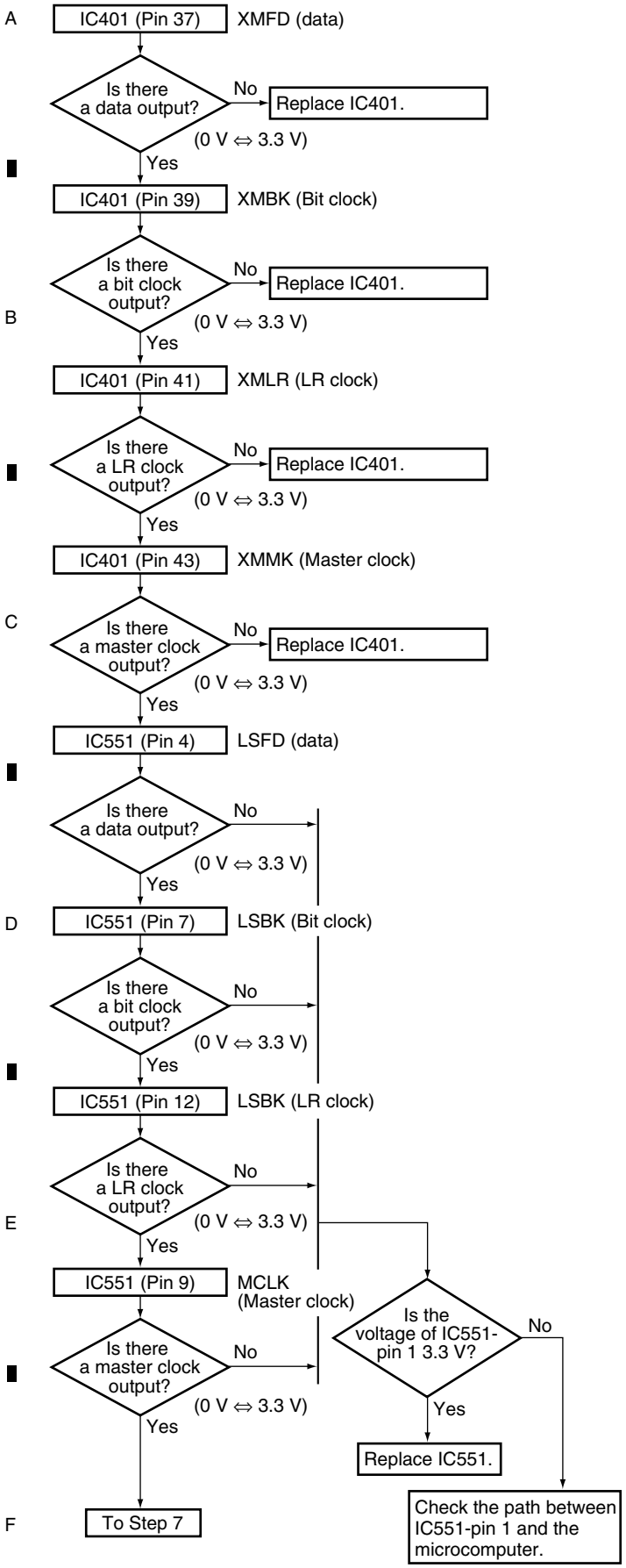




Step 5: 5 V to 3 V conversion

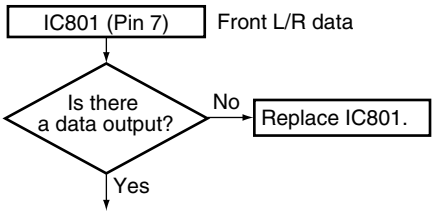


Step 6: XM/DT

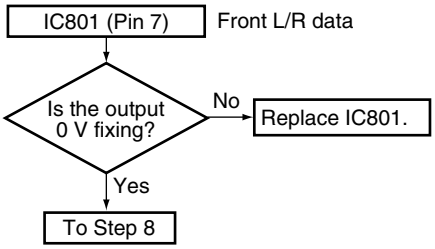


Step 7: DSP output (digital)

Digital output of each CH when receiving the broadcast signal with audio.



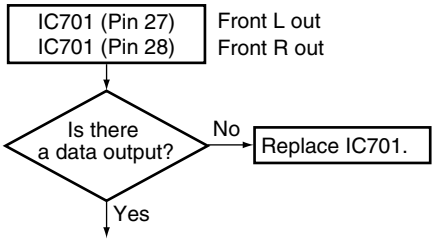
Digital output of each CH when not receiving the broadcast signal (-∞ dB (no audio)).



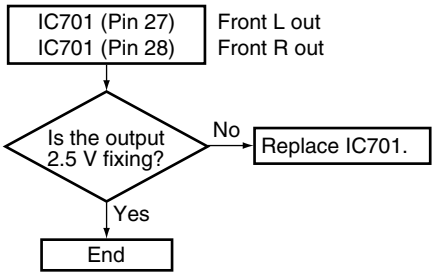
Note:
When confirm the output in the XM surround system, refer to step 7 of "Troubleshooting for all destination".

Step 8: Codec output (analog)

Analog output of each CH when inputting the broadcast signal with audio.



Analog output of each CH when not receiving the broadcast signal (-∞ dB (no audio)).

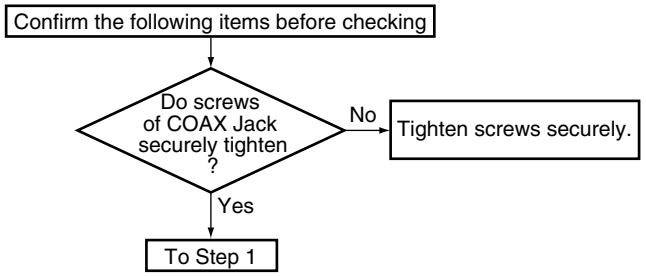


Note:
When confirm the output in the XM surround system, refer to step 8 of "Troubleshooting for all destination".

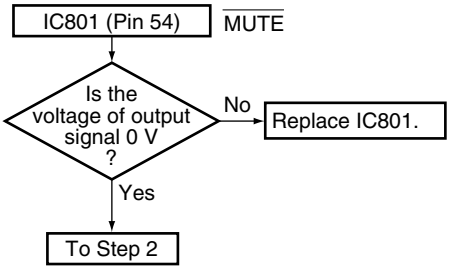
■ Troubleshooting in the MCACC mode (AWX8809 and AWX8810 only)

- When the MCACC mode is turned on (SurroundBack is not output by setting.)
- Suppose CR to be poor contact and that is not damaged.
- This shows failure analysis of DSP Assy.

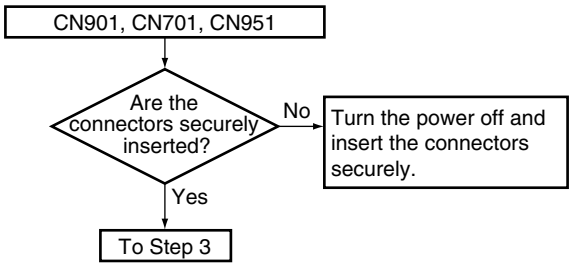
Step 0: Preliminary confirmation



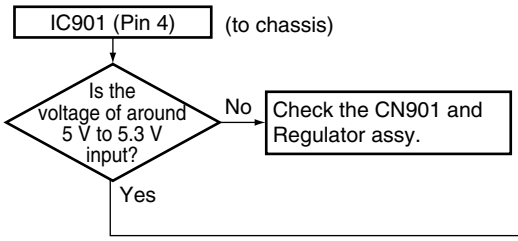
Step 1: MUTE pin

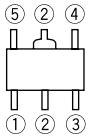


Step 2: BtoB connector

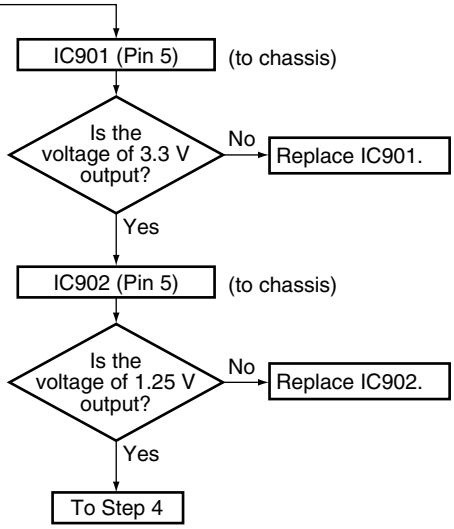


Step 3: Regulator IC

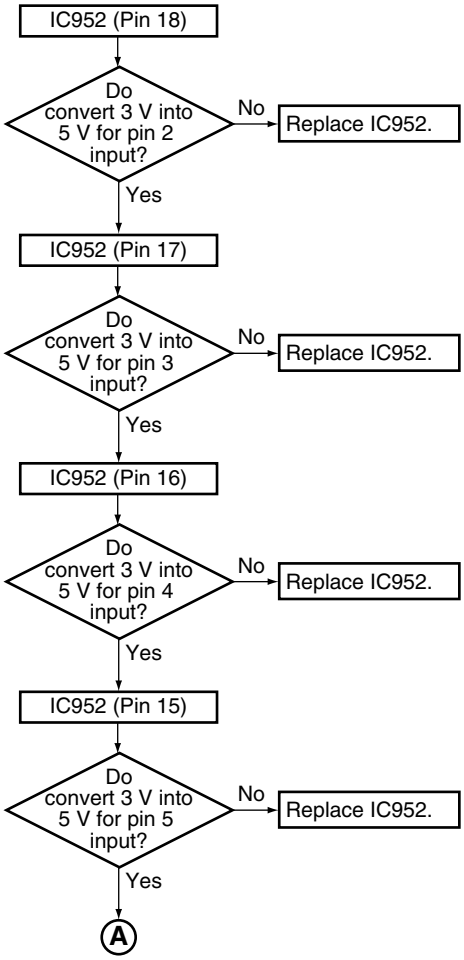


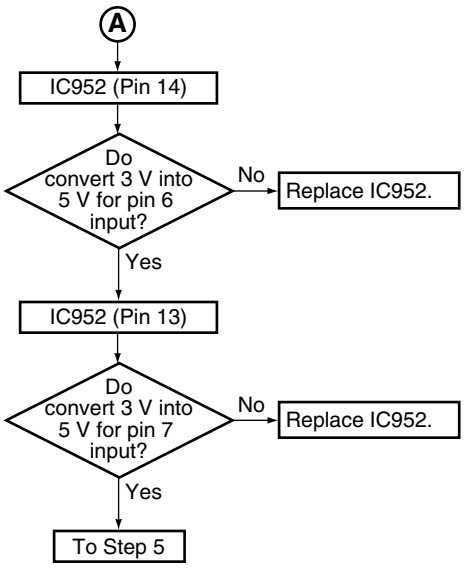


Part shape and Pin arrangement of IC901 and IC902

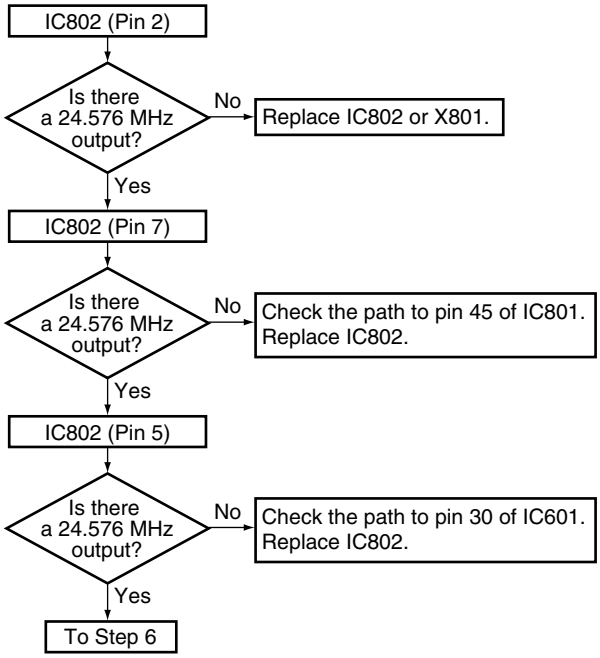


Step 4: 3 V to 5 V conversion

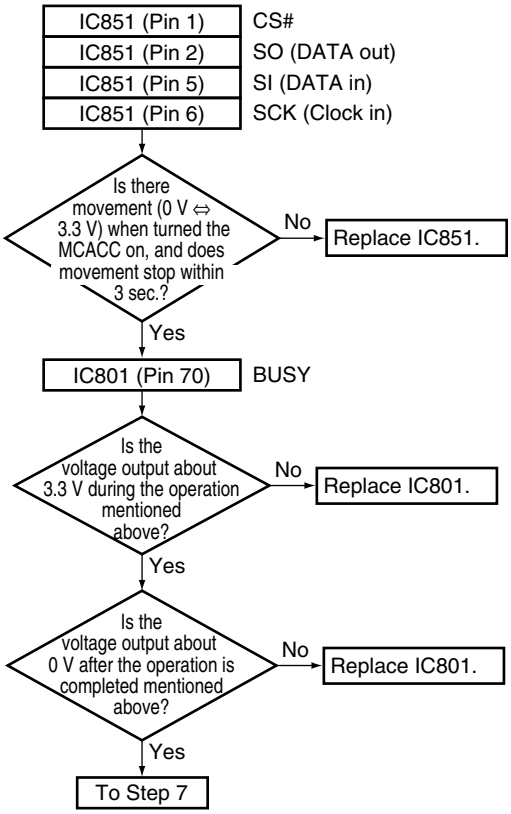




Step 5: X'tal

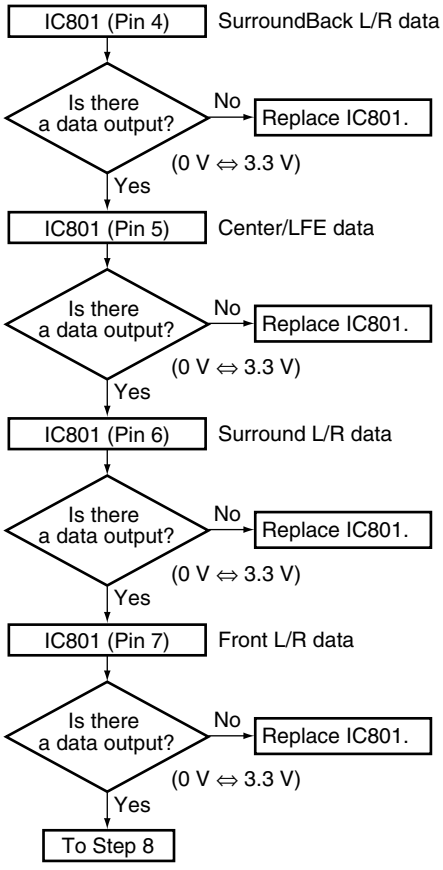


Step 6: ROM


IC851 (Pin 1) CS#
IC851 (Pin 2) SO (DATA out)
IC851 (Pin 5) SI (DATA in)
IC851 (Pin 6) SCK (Clock in)
Is there movement (0 V ⇔ 3.3 V) when turned the MCACC on, and does movement stop within 3 sec.?
No
Replace IC851.
Yes
IC801 (Pin 70) BUSY
Is the voltage output about 3.3 V during the operation mentioned above?
No
Replace IC801.
Yes
Is the voltage output about 0 V after the operation is completed mentioned above?
No
Replace IC801.
Yes
To Step 7

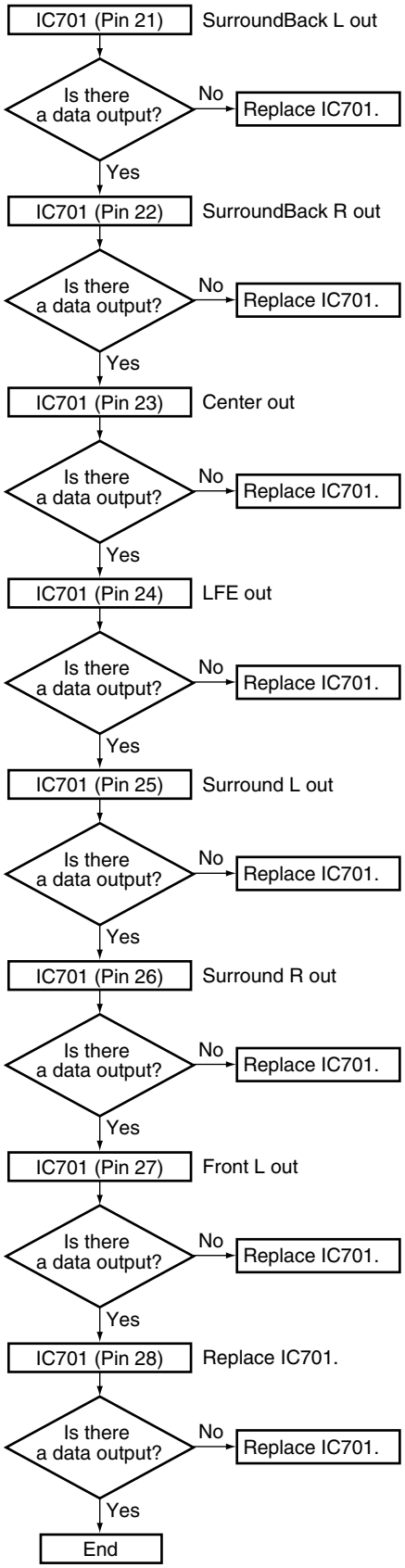
Step 7: DSP output (digital)

Digital output when indicated each CH.



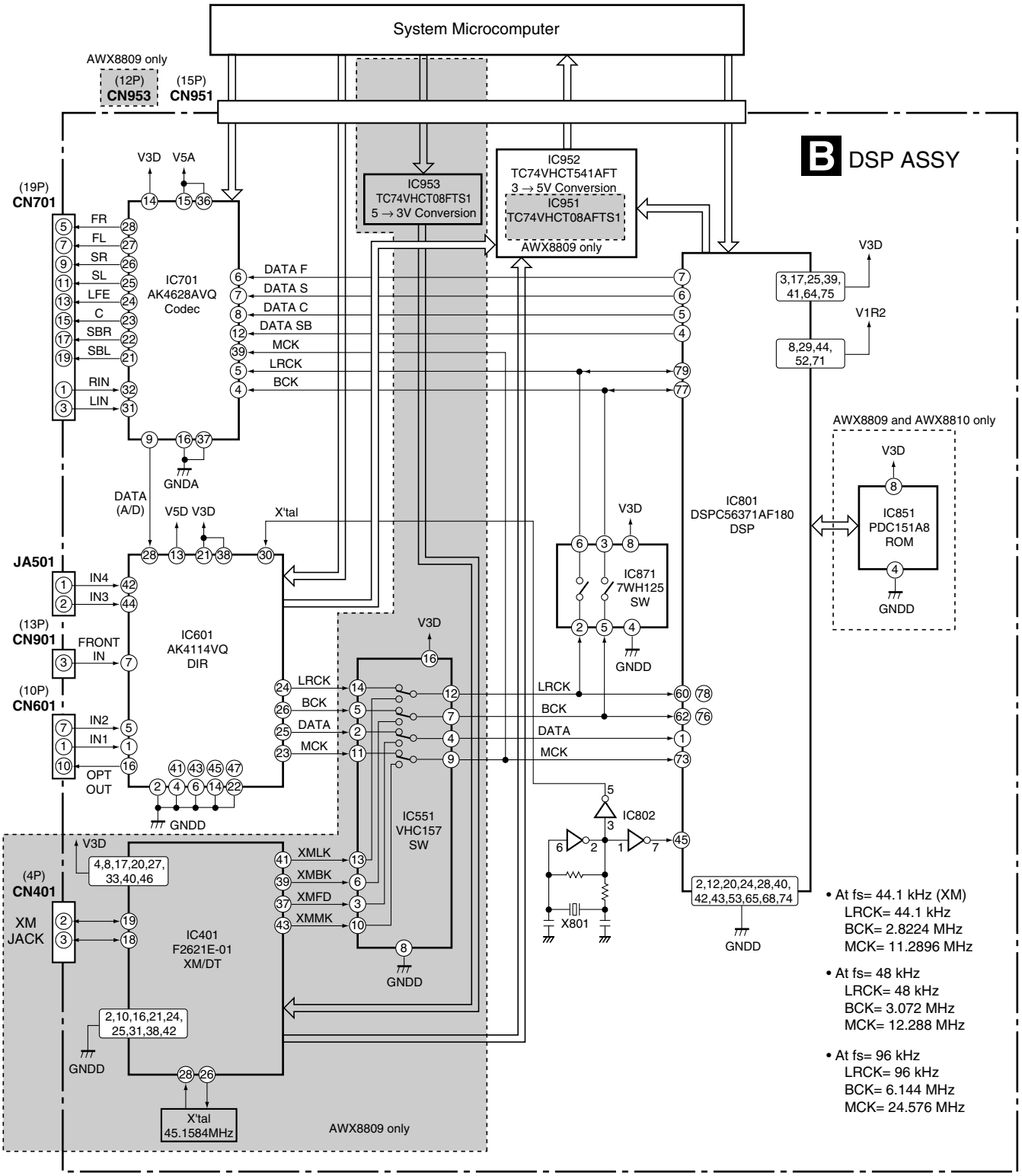
Step 8: CODEC output (analog)

Analog output when indicated each CH.



• DSP Block Diagram

• : AWX8809 only



7.1.2 HDMI TROUBLESHOOTING

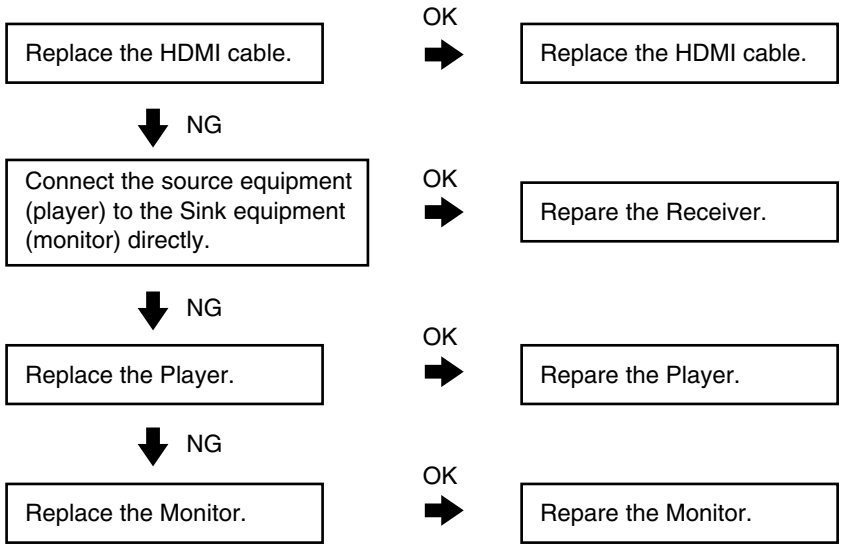
■ HDMI Simple Diagnosis

Please refer to the one point trouble shooting first before checking the flow chart on the next page.

HDMI

Symptom	Remedy
No picture or sound.	• If the problem still persists when connecting your HDMI component directly to your monitor, please consult the component or monitor manual or contact the manufacturer for support.
No picture.	• Depending in the output settings of the source component, it may be outputting a video format that can't be displayed. Change the output settings of the source, or connect using the component, S-video or composite jacks.
No sound, or sound suddenly ceases.	• Since the HDMI audio signal is sent through this receiver to your TV, you need to make separate connections for audio if you want to hear your HDMI component through this system. • If you've made separate connections for audio, make sure you have assigned the analog/digital jack(s) to the corresponding HDMI input for the component. • Check the audio output settings of the source component.

Causes for no display or sound from the monitor



■ HDMI Troubleshooting

- The parts marked like **V+5** in the following chart are located in "HDMI &DVC Assy Check Points".

Common section

Step 1-1: Connections

CN1001, CN1002 — **A** **a**

Are BtoB connectors inserted securely? — No → Insert it securely.

Yes

CN1003 — **B**

Is FFC cable inserted securely? — No → Insert it securely.

Yes

Step 1-2: Power supply

IC901 (Pin 1) — 5 V — **V+5**

Is the voltage 5 V? — No → Diagnose the POWER PACK Assy.

Yes

IC901 (Pin 3) — 3.3 V — **V+3R3**

Is the voltage 3.3 V? — No → Check the IC901. If IC901 is failure, replace IC901.

Yes

To Step 2-1: HDMI section
To Step 3-1: Video converter section

HDMI section

Step 2-1: CE

CN318 (Pin 5) — CE — **A**

Is the voltage "H" (5 V)? — No → Diagnose between the BOARD TO BOARD Assy and MAIN Assy.

Yes

Step 2-2: Power supply

IC911 (Pin 1) — 7 V — **V+7**

Is the voltage 7 V? — No → Diagnose the POWER PACK Assy.

Yes

IC911 (Pin 5) — 5 V — **V+5HD**

Is the voltage 5 V? — No → Check the IC911. If IC911 is failure, replace IC911.

Yes

L1001 — 5 V — **V+5D**

Is the voltage 5 V? — No → Check the L1001. If L1001 is failure, replace L1001.

Yes

L101 — 3.3 V (IC101) — **3.3V_EQ**

Is the voltage 3.3 V? — No → Check the L101 and Q101. If L101 or Q101 is failure, replace L101 or Q101.

Yes

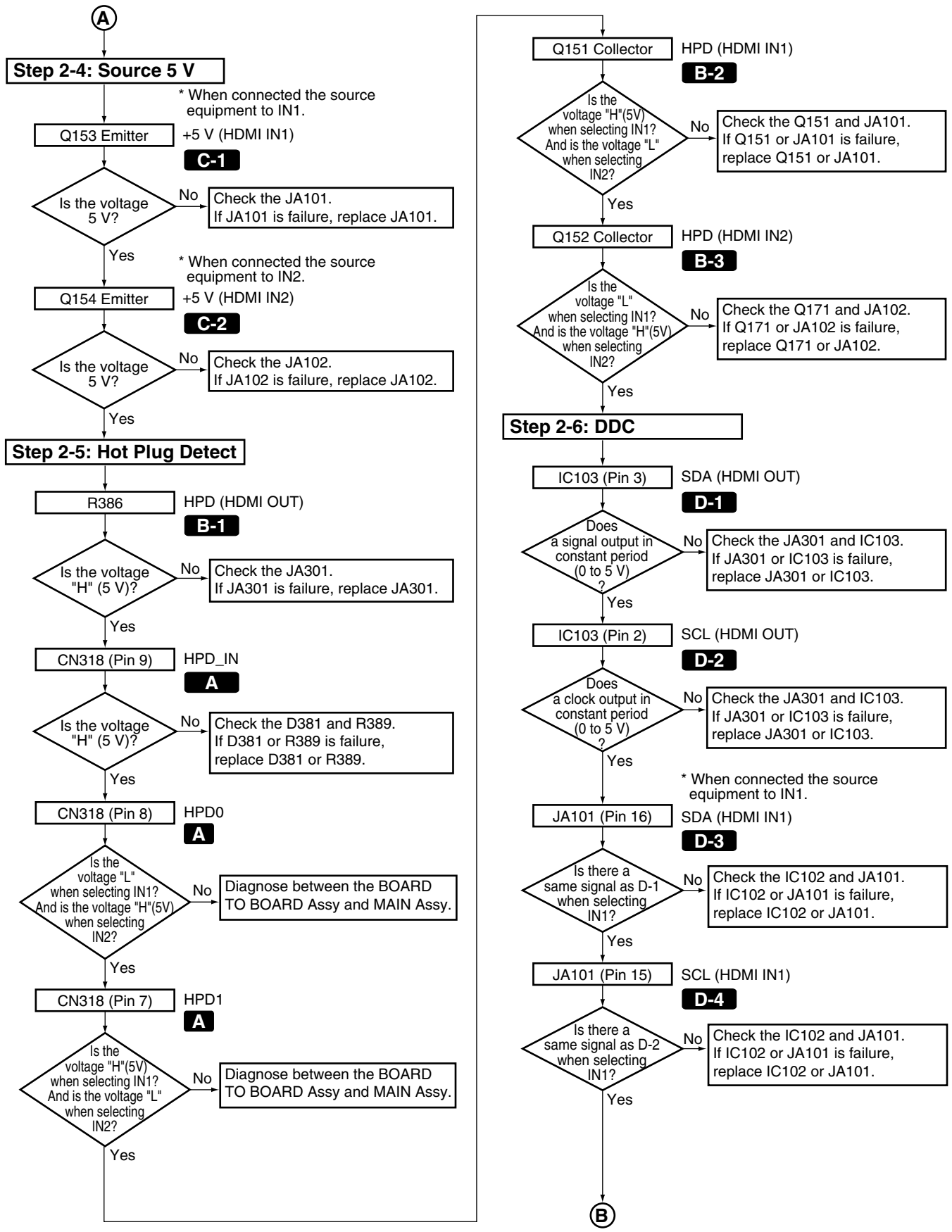
Step 2-3: SEL

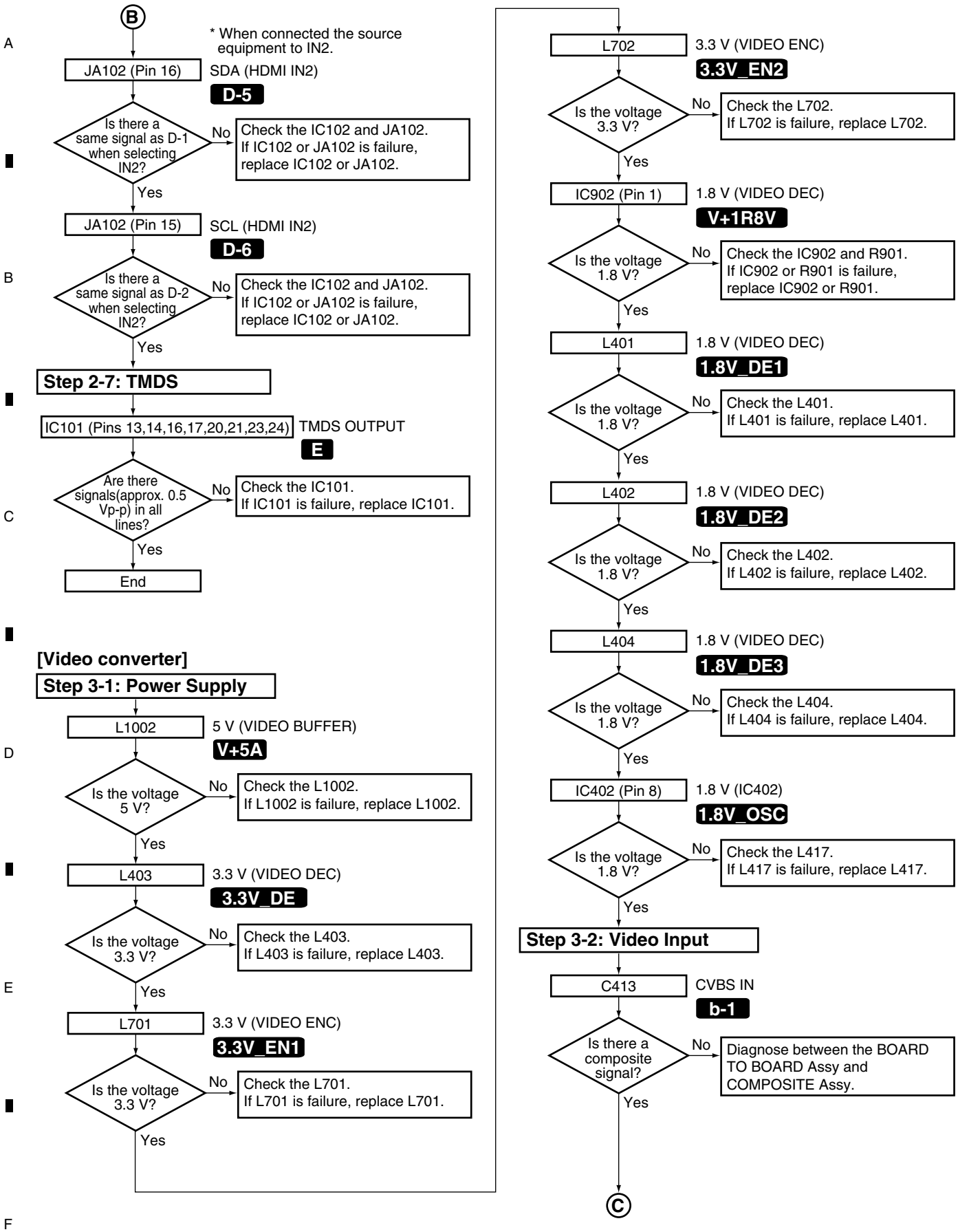
CN318 (Pin 6) — SEL — **A**

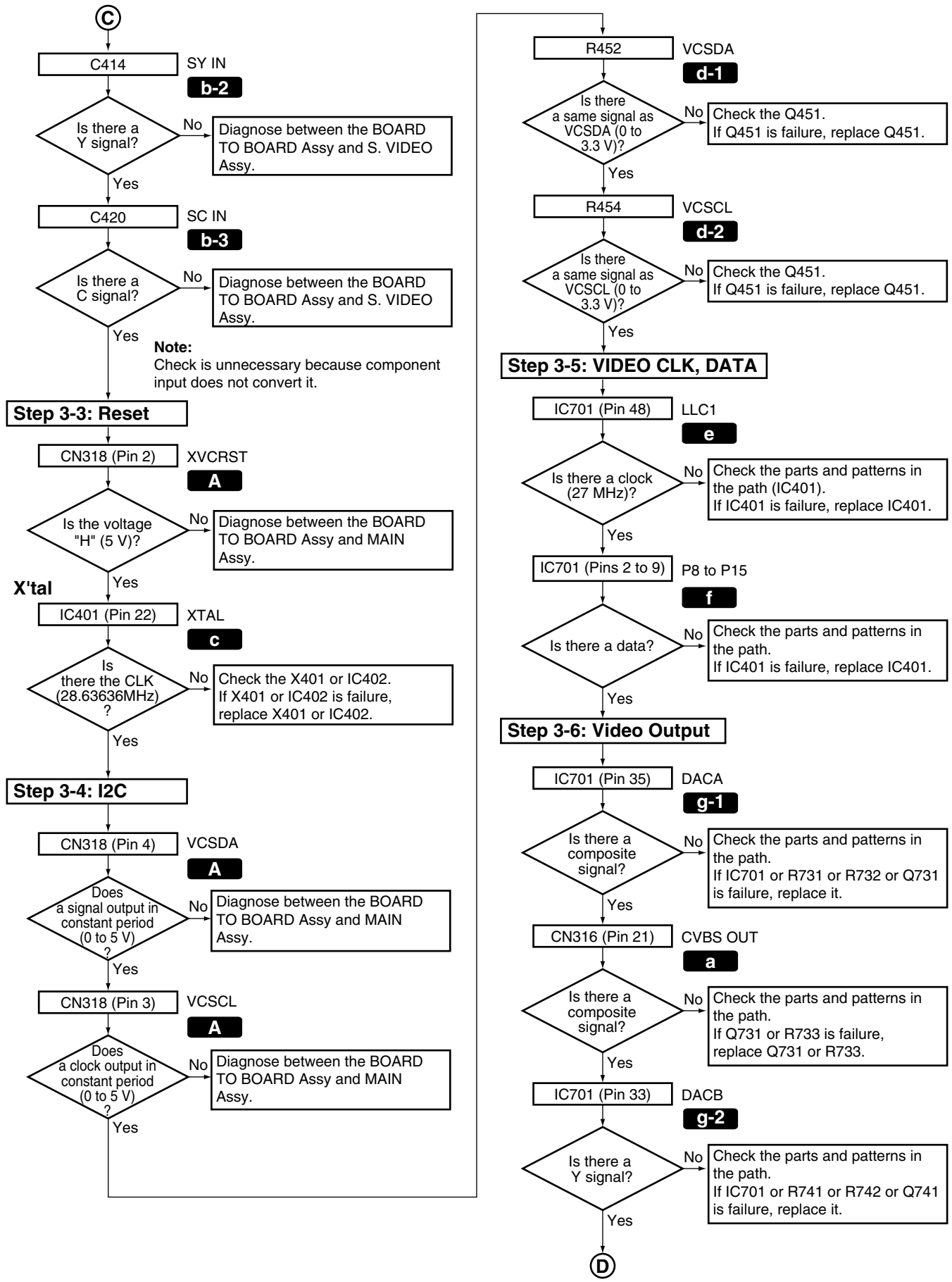
Is the voltage "H"(5V) when selecting IN1? And is the voltage "L" when selecting IN2? — No → Diagnose between the BOARD TO BOARD Assy and MAIN Assy.

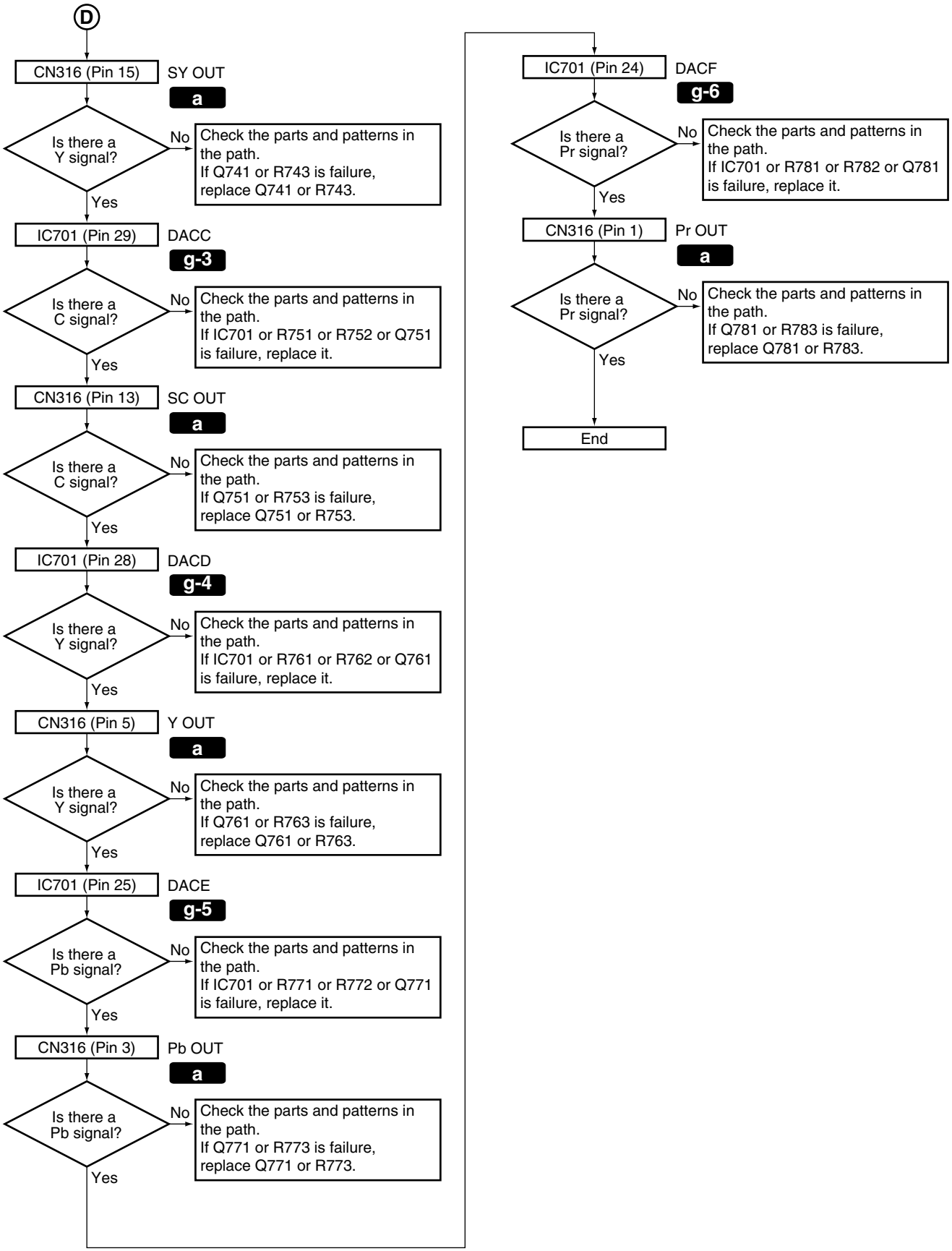
Yes

Ⓐ


A
Step 2-4: Source 5 V
* When connected the source equipment to IN1.
Q153 Emitter
+5 V (HDMI IN1)
C-1
Is the voltage 5 V?
No
Check the JA101.
If JA101 is failure, replace JA101.
Yes
* When connected the source equipment to IN2.
Q154 Emitter
+5 V (HDMI IN2)
C-2
Is the voltage 5 V?
No
Check the JA102.
If JA102 is failure, replace JA102.
Yes
Step 2-5: Hot Plug Detect
R386
HPD (HDMI OUT)
B-1
Is the voltage "H" (5 V)?
No
Check the JA301.
If JA301 is failure, replace JA301.
Yes
CN318 (Pin 9)
HPD_IN
A
Is the voltage "H" (5 V)?
No
Check the D381 and R389.
If D381 or R389 is failure, replace D381 or R389.
Yes
CN318 (Pin 8)
HPD0
A
Is the voltage "L" when selecting IN1? And is the voltage "H"(5V) when selecting IN2?
No
Diagnose between the BOARD TO BOARD Assy and MAIN Assy.
Yes
CN318 (Pin 7)
HPD1
A
Is the voltage "H"(5V) when selecting IN1? And is the voltage "L" when selecting IN2?
No
Diagnose between the BOARD TO BOARD Assy and MAIN Assy.
Yes
Q151 Collector
HPD (HDMI IN1)
B-2
Is the voltage "H"(5V) when selecting IN1? And is the voltage "L" when selecting IN2?
No
Check the Q151 and JA101.
If Q151 or JA101 is failure, replace Q151 or JA101.
Yes
Q152 Collector
HPD (HDMI IN2)
B-3
Is the voltage "L" when selecting IN1? And is the voltage "H"(5V) when selecting IN2?
No
Check the Q171 and JA102.
If Q171 or JA102 is failure, replace Q171 or JA102.
Yes
Step 2-6: DDC
IC103 (Pin 3)
SDA (HDMI OUT)
D-1
Does a signal output in constant period (0 to 5 V) ?
No
Check the JA301 and IC103.
If JA301 or IC103 is failure, replace JA301 or IC103.
Yes
IC103 (Pin 2)
SCL (HDMI OUT)
D-2
Does a clock output in constant period (0 to 5 V) ?
No
Check the JA301 and IC103.
If JA301 or IC103 is failure, replace JA301 or IC103.
Yes
* When connected the source equipment to IN1.
JA101 (Pin 16)
SDA (HDMI IN1)
D-3
Is there a same signal as D-1 when selecting IN1?
No
Check the IC102 and JA101.
If IC102 or JA101 is failure, replace IC102 or JA101.
Yes
JA101 (Pin 15)
SCL (HDMI IN1)
D-4
Is there a same signal as D-2 when selecting IN1?
No
Check the IC102 and JA101.
If IC102 or JA101 is failure, replace IC102 or JA101.
Yes
B

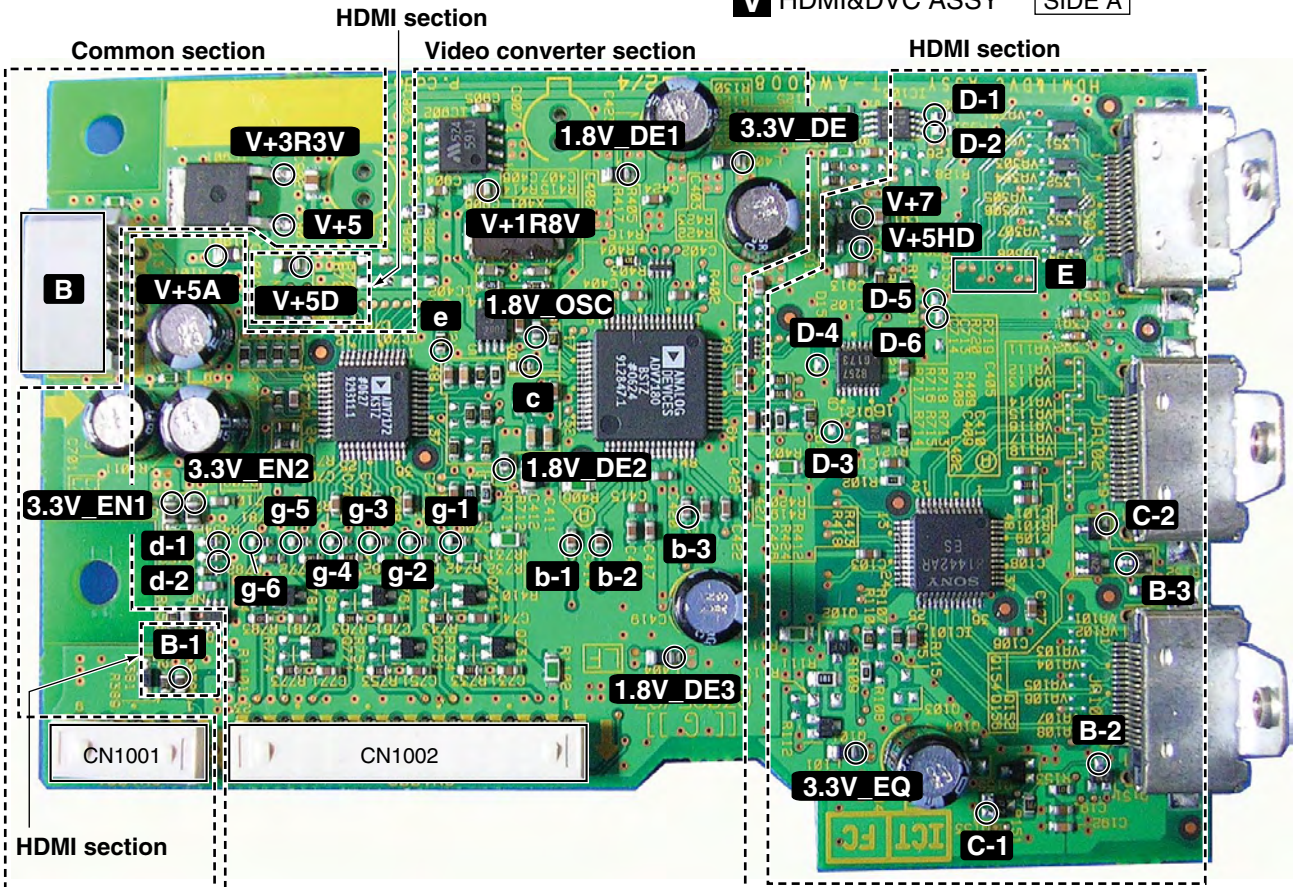

B
* When connected the source equipment to IN2.
JA102 (Pin 16)
SDA (HDMI IN2)
D-5
Is there a same signal as D-1 when selecting IN2?
No
Check the IC102 and JA102. If IC102 or JA102 is failure, replace IC102 or JA102.
Yes
JA102 (Pin 15)
SCL (HDMI IN2)
D-6
Is there a same signal as D-2 when selecting IN2?
No
Check the IC102 and JA102. If IC102 or JA102 is failure, replace IC102 or JA102.
Yes
Step 2-7: TMDS
IC101 (Pins 13,14,16,17,20,21,23,24)
TMDS OUTPUT
E
Are there signals(approx. 0.5 Vp-p) in all lines?
No
Check the IC101. If IC101 is failure, replace IC101.
Yes
End
[Video converter]
Step 3-1: Power Supply
L1002
5 V (VIDEO BUFFER)
V+5A
Is the voltage 5 V?
No
Check the L1002. If L1002 is failure, replace L1002.
Yes
L403
3.3 V (VIDEO DEC)
3.3V_DE
Is the voltage 3.3 V?
No
Check the L403. If L403 is failure, replace L403.
Yes
L701
3.3 V (VIDEO ENC)
3.3V_EN1
Is the voltage 3.3 V?
No
Check the L701. If L701 is failure, replace L701.
Yes
L702
3.3 V (VIDEO ENC)
3.3V_EN2
Is the voltage 3.3 V?
No
Check the L702. If L702 is failure, replace L702.
Yes
IC902 (Pin 1)
1.8 V (VIDEO DEC)
V+1R8V
Is the voltage 1.8 V?
No
Check the IC902 and R901. If IC902 or R901 is failure, replace IC902 or R901.
Yes
L401
1.8 V (VIDEO DEC)
1.8V_DE1
Is the voltage 1.8 V?
No
Check the L401. If L401 is failure, replace L401.
Yes
L402
1.8 V (VIDEO DEC)
1.8V_DE2
Is the voltage 1.8 V?
No
Check the L402. If L402 is failure, replace L402.
Yes
L404
1.8 V (VIDEO DEC)
1.8V_DE3
Is the voltage 1.8 V?
No
Check the L404. If L404 is failure, replace L404.
Yes
IC402 (Pin 8)
1.8 V (IC402)
1.8V_OSC
Is the voltage 1.8 V?
No
Check the L417. If L417 is failure, replace L417.
Yes
Step 3-2: Video Input
C413
CVBS IN
b-1
Is there a composite signal?
No
Diagnose between the BOARD TO BOARD Assy and COMPOSITE Assy.
Yes
C

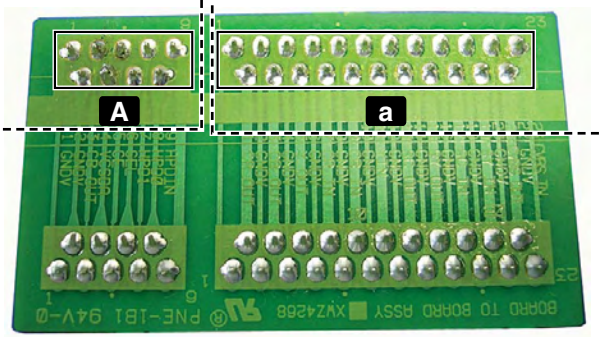

C
C414
SY IN
b-2
Is there a Y signal?
No
Diagnose between the BOARD TO BOARD Assy and S. VIDEO Assy.
Yes
C420
SC IN
b-3
Is there a C signal?
No
Diagnose between the BOARD TO BOARD Assy and S. VIDEO Assy.
Yes
Note:
Check is unnecessary because component input does not convert it.
Step 3-3: Reset
CN318 (Pin 2)
XVCRST
A
Is the voltage "H" (5 V)?
No
Diagnose between the BOARD TO BOARD Assy and MAIN Assy.
Yes
X'tal
IC401 (Pin 22)
XTAL
c
Is there the CLK (28.63636MHz) ?
No
Check the X401 or IC402. If X401 or IC402 is failure, replace X401 or IC402.
Yes
Step 3-4: I2C
CN318 (Pin 4)
VCSDA
A
Does a signal output in constant period (0 to 5 V) ?
No
Diagnose between the BOARD TO BOARD Assy and MAIN Assy.
Yes
CN318 (Pin 3)
VCSCL
A
Does a clock output in constant period (0 to 5 V) ?
No
Diagnose between the BOARD TO BOARD Assy and MAIN Assy.
Yes
R452
VCSDA
d-1
Is there a same signal as VCSDA (0 to 3.3 V)?
No
Check the Q451. If Q451 is failure, replace Q451.
Yes
R454
VCSCL
d-2
Is there a same signal as VCSCL (0 to 3.3 V)?
No
Check the Q451. If Q451 is failure, replace Q451.
Yes
Step 3-5: VIDEO CLK, DATA
IC701 (Pin 48)
LLC1
e
Is there a clock (27 MHz)?
No
Check the parts and patterns in the path (IC401). If IC401 is failure, replace IC401.
Yes
IC701 (Pins 2 to 9)
P8 to P15
f
Is there a data?
No
Check the parts and patterns in the path. If IC401 is failure, replace IC401.
Yes
Step 3-6: Video Output
IC701 (Pin 35)
DACA
g-1
Is there a composite signal?
No
Check the parts and patterns in the path. If IC701 or R731 or R732 or Q731 is failure, replace it.
Yes
CN316 (Pin 21)
CVBS OUT
a
Is there a composite signal?
No
Check the parts and patterns in the path. If Q731 or R733 is failure, replace Q731 or R733.
Yes
IC701 (Pin 33)
DACB
g-2
Is there a Y signal?
No
Check the parts and patterns in the path. If IC701 or R741 or R742 or Q741 is failure, replace it.
Yes
D


D
CN316 (Pin 15)
SY OUT
a
Is there a Y signal?
No
Check the parts and patterns in the path. If Q741 or R743 is failure, replace Q741 or R743.
Yes
IC701 (Pin 29)
DACC
g-3
Is there a C signal?
No
Check the parts and patterns in the path. If IC701 or R751 or R752 or Q751 is failure, replace it.
Yes
CN316 (Pin 13)
SC OUT
a
Is there a C signal?
No
Check the parts and patterns in the path. If Q751 or R753 is failure, replace Q751 or R753.
Yes
IC701 (Pin 28)
DACD
g-4
Is there a Y signal?
No
Check the parts and patterns in the path. If IC701 or R761 or R762 or Q761 is failure, replace it.
Yes
CN316 (Pin 5)
Y OUT
a
Is there a Y signal?
No
Check the parts and patterns in the path. If Q761 or R763 is failure, replace Q761 or R763.
Yes
IC701 (Pin 25)
DACE
g-5
Is there a Pb signal?
No
Check the parts and patterns in the path. If IC701 or R771 or R772 or Q771 is failure, replace it.
Yes
CN316 (Pin 3)
Pb OUT
a
Is there a Pb signal?
No
Check the parts and patterns in the path. If Q771 or R773 is failure, replace Q771 or R773.
Yes
IC701 (Pin 24)
DACF
g-6
Is there a Pr signal?
No
Check the parts and patterns in the path. If IC701 or R781 or R782 or Q781 is failure, replace it.
Yes
CN316 (Pin 1)
Pr OUT
a
Is there a Pr signal?
No
Check the parts and patterns in the path. If Q781 or R783 is failure, replace Q781 or R783.
Yes
End

■ HDMI & DVC Assy Check Points

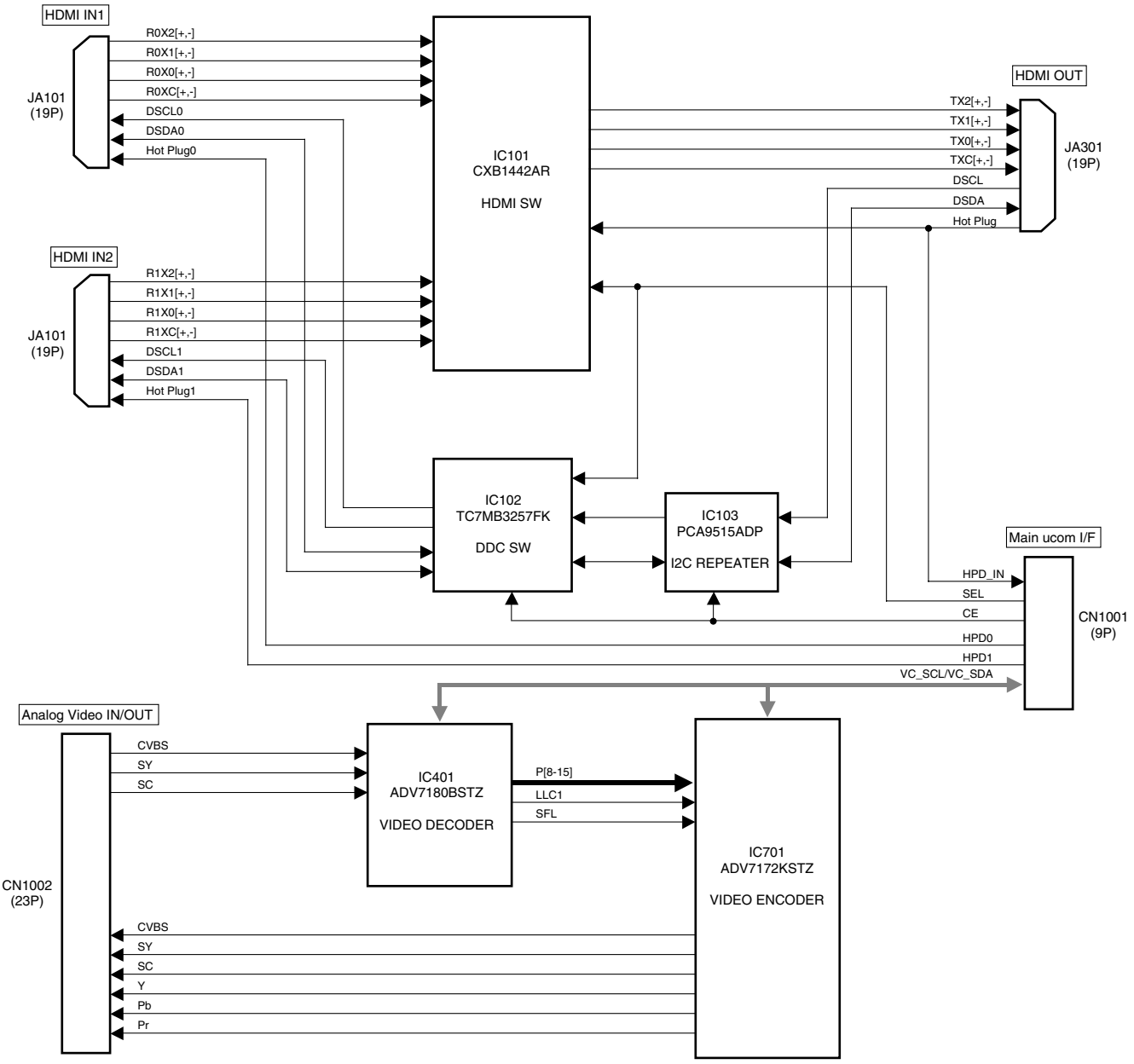
V HDMI&DVC ASSY SIDE A

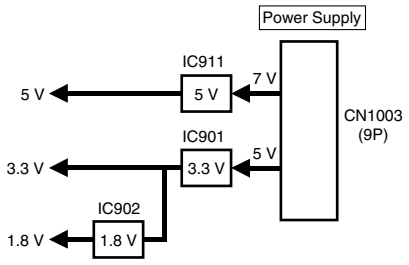




P BOARD TO BOARD ASSY SIDE B

■ Block Diagram of the HDMI & DVC Assy





7.1.3 DISASSEMBLY

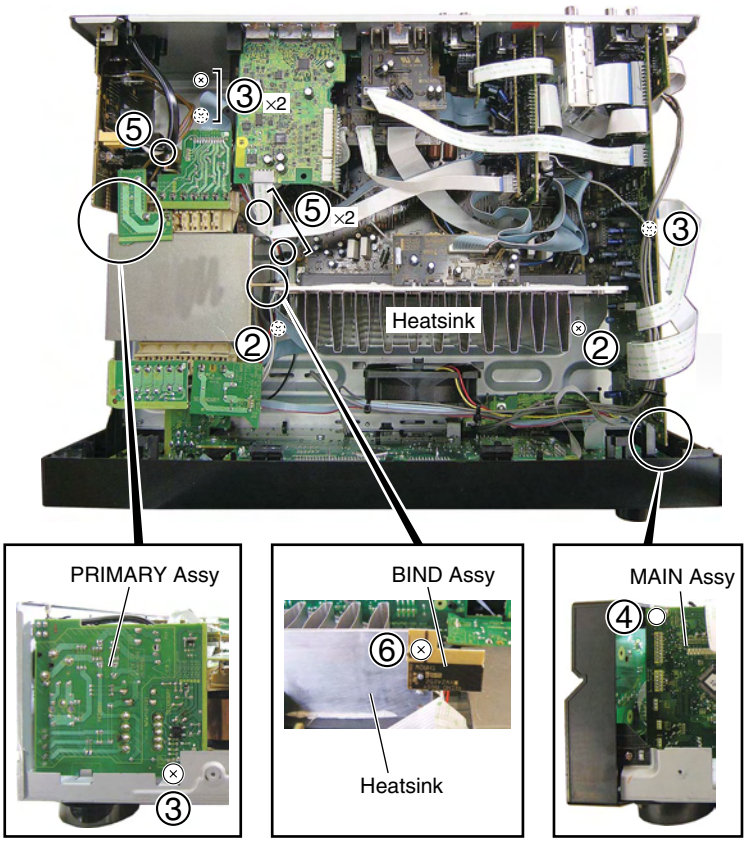
Note: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Diagnosis of the Unit

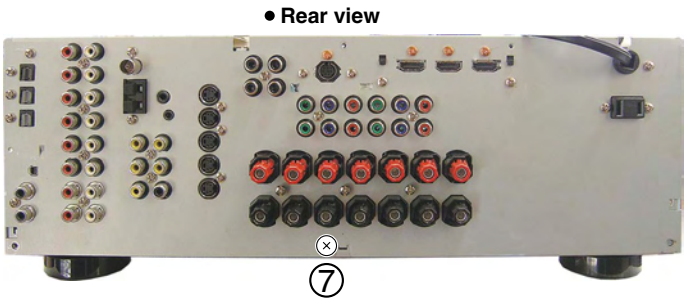
Caution:
Heatsink section in work becomes hot, and be careful with it.

① Remove the bonnet by removing the six screws.

② Remove the two screws.
③ Remove the four screws.
④ Remove the push rivet.
⑤ Release the three binders.
⑥ Remove the BIND Assy by removing the one screw.

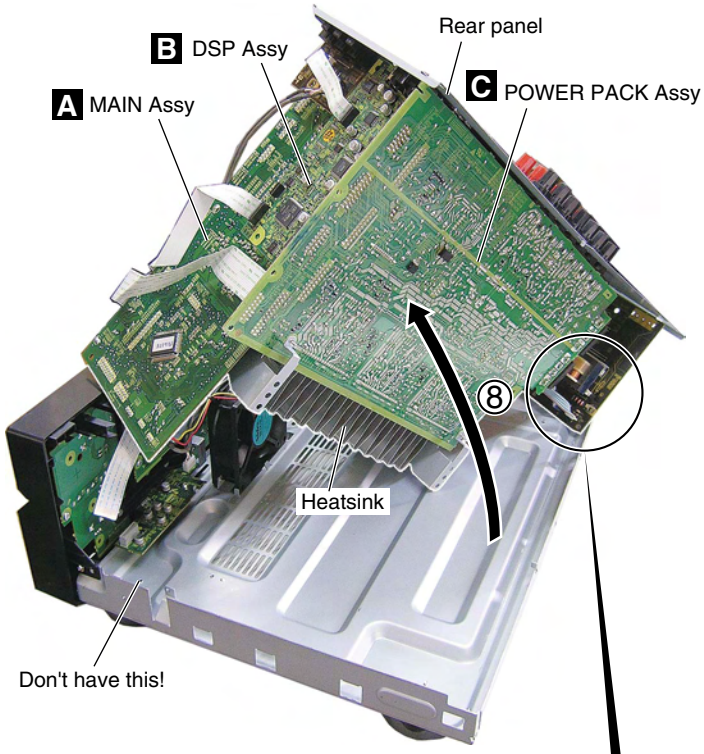


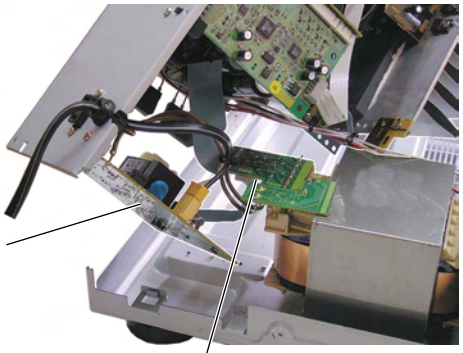
⑦ Remove the one screw.



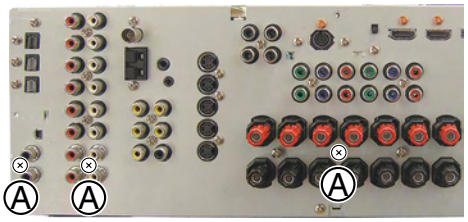
⑧ Arrange the unit as shown in the photo below.

Diagnosis



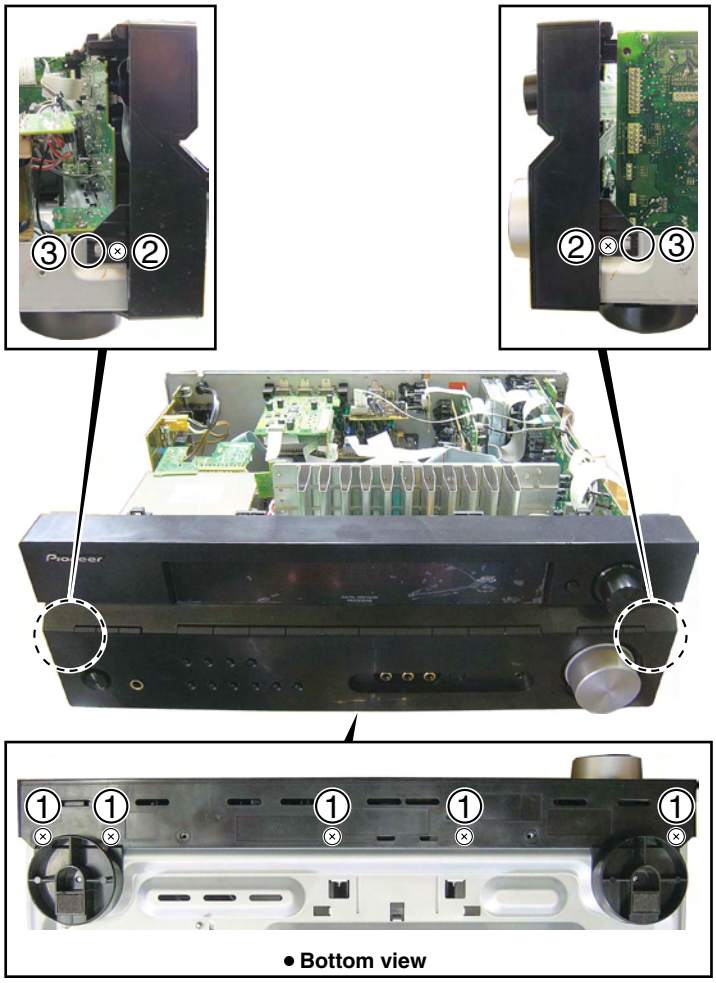

Be careful with it so that a part of PRIMARY Assy does not touch chassis.
Be careful with it when lifts an AMP. section not to damage the TRANS Assys.

Caution:
During diagnosis, be sure NOT to remove the three screws marked Ⓐ in the above photo.
There is the case that a product does not work normally when removes these screws.



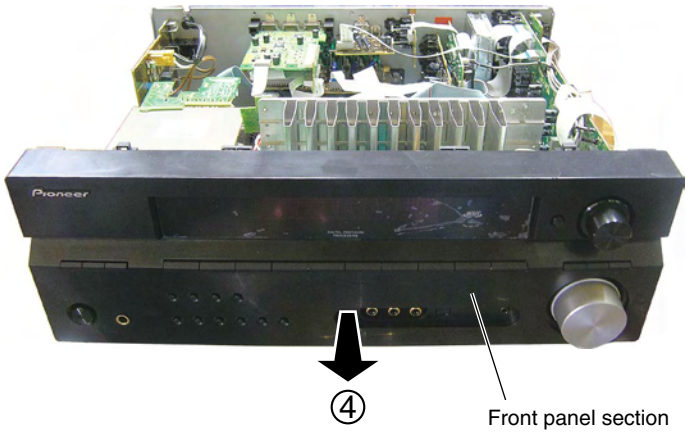
Front Panel Section

① Remove the five screws.
② Remove the two screws.
③ Unhook the two hooks.

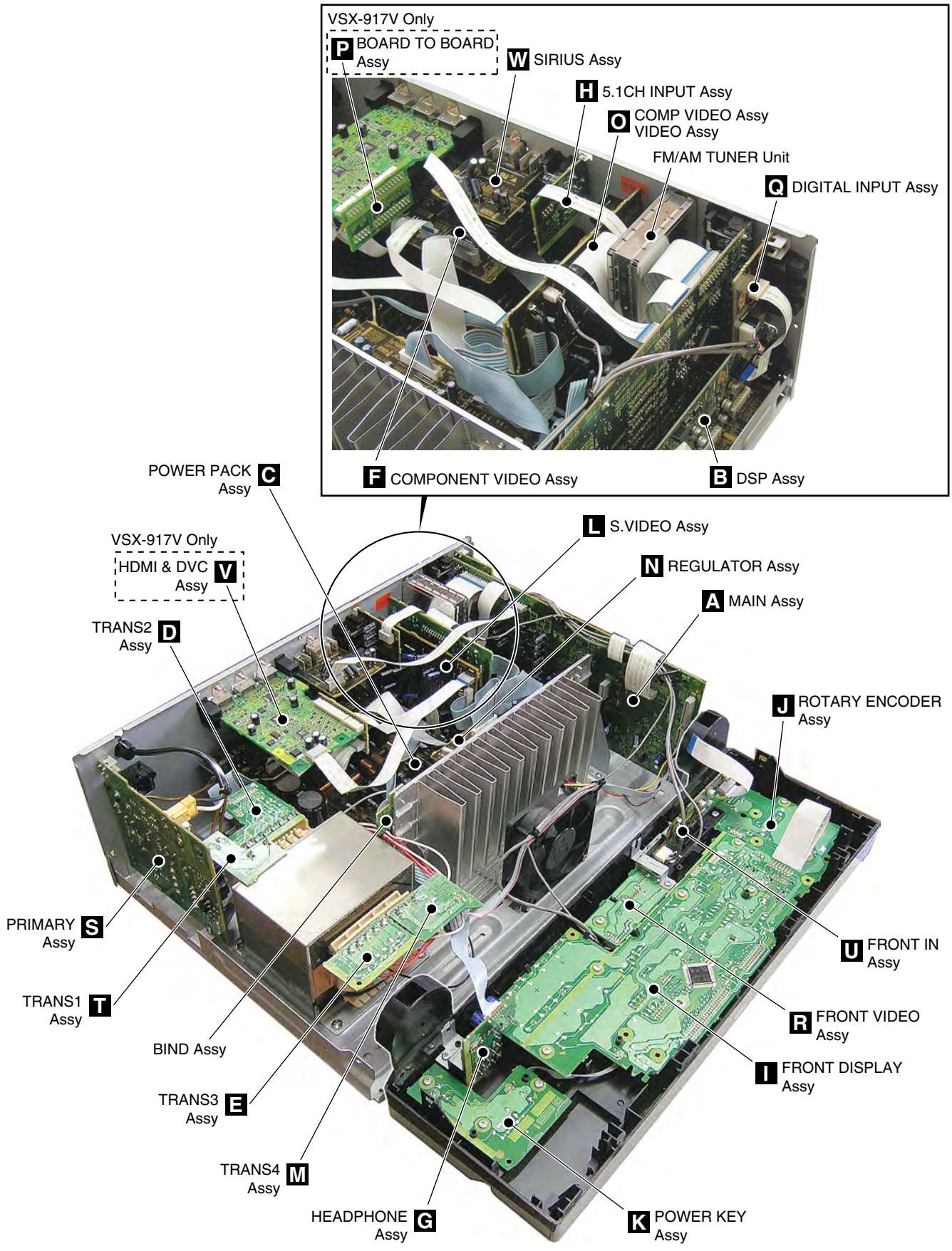


● **Bottom view**

④ Remove the front panel section.



PCB Location



7.2 PARTS
7.2.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

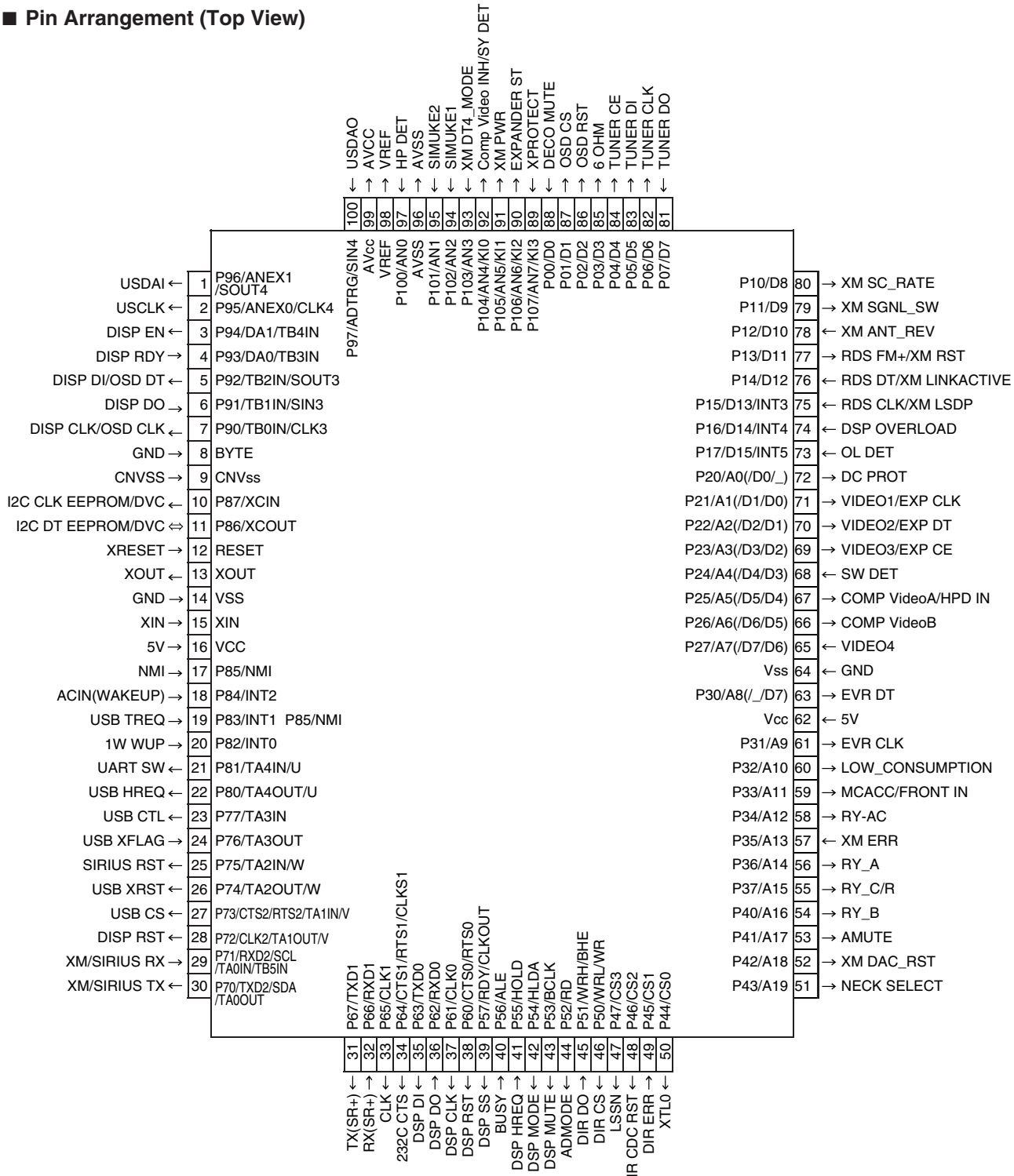
• List of IC

PEG375B8, PQ1LAX95MSPQ, PDC151A8, F2621E-01

■ PEG375B8 (MAIN ASSY : IC9001)

• System Control MCU

■ Pin Arrangement (Top View)



• Pin Function

No.	Port	Pin Name	I/O	Pin Function
1	P96/ANEX1/SOUT4	USDAI	O	Data out to USB
2	P95/ANEX0/CLK4	USCLK	O	Clock signal from USB
3	P94/DA1/TB4IN	DISP EN	O	Enable signal to display u-com
4	P93/DA0/TB3IN	DISP RDY	I	Ready signal from display u-com
5	P92/TB2IN/SOUT3	DISP DI/OSD DT	O	Data out to display u-com
6	P91/TB1IN/SIN3	DISP DO	I	Data in from display u-com
7	P90/TB0IN/CLK3	DISP CLK/OSD CLK	O	Clock signal to display u-com
8	BYTE	GND	I	Ground
9	CNVss	CNVSS	I	Terminate to GND with resistor
10	P87/XCIN	I2C CK EEPROM/DVC	O	I2C bus for EEPROM, DVC
11	P86/XCOUT	I2C DT EEPROM/DVC	I/O	I2C bus for EEPROM, DVC
12	RESET	XRESET	I	Reset signal input
13	XOUT	XOUT	O	X'tal output
14	VSS	GND	I	Ground
15	XIN	XIN	I	X'tal input
16	VCC	5V	I	Power supply
17	P85/NMI	NMI	I	Pull-up to +5 V with resistor
18	P84/INT2	ACIN(WAKEUP)	I	AC pulse in
19	P83/INT1 P85/NMI	USB TREQ	I	Request from TCC760 to main u-com
20	P82/INT0	1W WUP	I	Wake up signal from display u-com (pull-down)
21	P81/TA4IN/U	UART SW	O	XM/SIRIUS UART BUS SWITCH control
22	P80/TA4OUT/U	USB HREQ	O	Request from main u-com to TCC760
23	P77/TA3IN	USB CTL	O	From main u-com to USB power switch IC
24	P76/TA3OUT	USB XFLAG	I	From USB power switch IC to main u-com
25	P75/TA2IN/W	SIRIUS RST	O	Reset signal to SIRIUS
26	P74/TA2OUT/W	USB XRST	O	Reset signal to USB (pull-down)
27	P73/CTS2/RTS2/TA1IN/V	USB CS	O	From main u-com to TCC760
28	P72/CLK2/TA1OUT/V	DISP RST	O	Reset signal to display u-com
29	P71/RXD2/SCL/TA0IN/TB5IN	XM/SIRIUS RX	I	
30	P70/TXD2/SDA/TA0OUT	XM SIRIUS TX	O	Pull-up
31	P67/TXD1	TX (SR+)	O	SR+ communication
32	P66/RxD1	RX (SR+)	I	SR+ communication
33	P65/CLK1	CLK	O	It is necessary when writing for JIG
34	P64/CTS1/RTS1/CLKS1	232C CTS	O	For rewriting 232C (Admit communication)
35	P63/TXD0	DSP DI	O	Data output signal for communication with DSP and DIR
36	P62/RxD0	DSP DO	I	Data input signal for communication with DSP
37	P61/CLK0	DSP CLK	O	Clock signal for communication with DSP and DIR
38	P60/CTS0/RTS0	DSP RST	O	Reset signal for DSP
39	P57/RDY/CLKOUT	DSP SS	O	Strobe select signal to DSP
40	P56/ALE	BUSY	I	Use it in MCACC
41	P55/HOLD	DSP HREQ	I	DSP error detect signal
42	P54/HLDA	DSP MODE	O	Mode select of DSP (ROM/RAM)
43	P53/BCLK	DSP MUTE	O	DSP ASSY mute
44	P52/RD	ADMODE	O	DSP ASSY
45	P51/WRH/BHE	DIR DO	I	Data input signal for communication with DIR/DAC
46	P50/WRL/WR	DIR CS	O	Chip select signal for communication with DIR/DAC
47	P47/CS3	LSSN	O	DSP ASSY
48	P46/CS2	DIR CDC RST	O	Reset signal for DIR CODEC
49	P45/CS1	DIR ERR	I	lock/unlock signal
50	P44/CS0	XTL0	O	DIR X'tal change

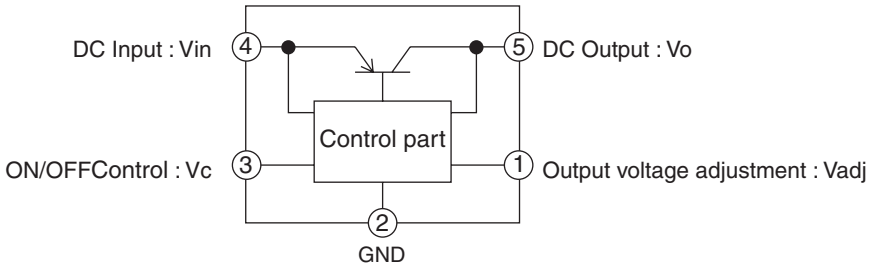
• **Pin Function**

No.	Port	Pin Name	I/O	Pin Function
51	P43/A19	NECK SELECT	O	For 8ohm spk impedance: "H at Adv , Sandard, 5.1Multich, speaker A+B (7ch model). For 6 ohm spk impedance: L
52	P42/A18	XM DAC_RST	O	
53	P41/A17	AMUTE	O	System mute
54	P40/A16	RY_B	O	Speaker B relay-on / OFF at 916, 816 and 516. This RY_B is used for SW relay at 316.
55	P37/A15	RY_C/R	O	Rear one / center relay-on / OFF
56	P36/A14	RY_A	O	Speaker A relay-on / OFF
57	P35/A13	XM_ERR	I	
58	P34/A12	RY-AC	O	AC relay on/off
59	P33/A11	MCACC/FRONT IN	O	For analog switching control
60	P32/A10	LOW_CONSUMPTION	O	When 1 minutes passed after power off and then go into stop mode and port L, else H.
61	P31/A9	EVR CLK	O	Clock signal for Function and E-volume
62	Vcc	5V	I	
63	P30/A8/_/D7	EVR DT	O	Data signal for Function and E-volume
64	Vss	GND	I	
65	P27/A7(/D7/D6)	VIDEO4	O	917: SYNC DETECT , others: COMONENT VIDEO INH
66	P26/A6(/D6/D5)	COMP VideoB	O	Component terminal control
67	P25/A5(/D5/D4)	COMP VideoA/HPDIN	O	917: HDMI HOT PLUG DETECT, others: COMPONENT VIDEO A
68	P24/A4(/D4/D3)	SW DET	I	"H": SW YES, "L": SW NO
69	P23/A3(/D3/D2)	VIDEO3/EXP CE	O	917: EXPANDER CE , others: VIDEO3
70	P22/A2(/D2/D1)	VIDEO2/EXP DT	O	917: EXPANDER DATA ,others: VIDEO2
71	P21/A1(/D1/D0)	VIDEO1/EXP CLK	O	917: EXPANDER CLK , others: VIDEO1
72	P20/A0(/D0/_)	DC PROT	I	Amplifier DC detection. H:Normal, L:Abnormal
73	P17/D15/INT5	OL DET	I	Amplifier overload detection. H:Normal, L:Abnormal
74	P16/D14/INT4	DSP OVERLOAD	I	ANALOG OVER LOAD detect (H : detect)
75	P15/D13/INT3	RDS CLK/XM LSDP	I	RDS clock in signal
76	P14/D12	RDS DT/XM LINKACTIVE	I	RDS data in signal
77	P13/D11	RDS FM+/XM RST	O	RDS power supply. FM: Low, AM:High
78	P12/D10	XM ANT_REV	I	
79	P11/D9	XM SGNL_SW	O	
80	P10/D8	XM SC_RATE	O	
81	P07/D7	TUNER DO	I	Data input signal for tuner contorol
82	P06/D6	TUNER CLK	O	Clock signal for tuner contorol
83	P05/D5	TUNER DI	O	Data output signal for tuner contorol
84	P04/D4	TUNER CE	O	Chip select signal for tuner contorol
85	P03/D3	6 OHM	O	If stop mode, port L, else according to setting (J model No connect)
86	P02/D2	OSD RST	O	
87	P01/D1	OSD CS	O	
88	P00/D0	DECO MUTE	I	1st DSP detect port
89	P107/AN7/KI3	XPROTECT	I	Power supply abnormal condition detection. H: Normal, L: Abnormal.
90	P106/AN6/KI2	EXPANDER ST	O	Master volume ATT control (-15dB or less : L)
91	P105/AN5/KI1	XM PWR	O	
92	P104/AN4/KI0	Comp Video INH/SY DET	I/O	917: SYNC DETECT , others: COMONENT VIDEO INH
93	P103/AN3	XM DT4_MODE	I	
94	P102/AN2	SIMUKE1	I	Input 1 to switch region
95	P101/AN1	SIMUKE2	I	Input 2 to switch region
96	AVSS	AVSS	I	connects with VCC.
97	P100/AN0	HP DET	I	HP detection H:detected.
98	VREF	VREF	I	connects with VCC.
99	AVcc	AVCC	I	connects with VCC.
100	P97/ADTRG/SIN4	USDAO	I	data input from USB

■ PQ1LAX95MSPQ (DSP ASSY : IC901, IC902)

• REGURATOR IC

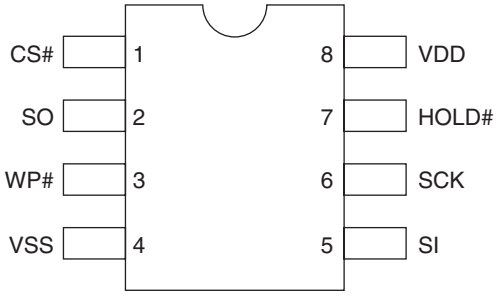
● Block diagram



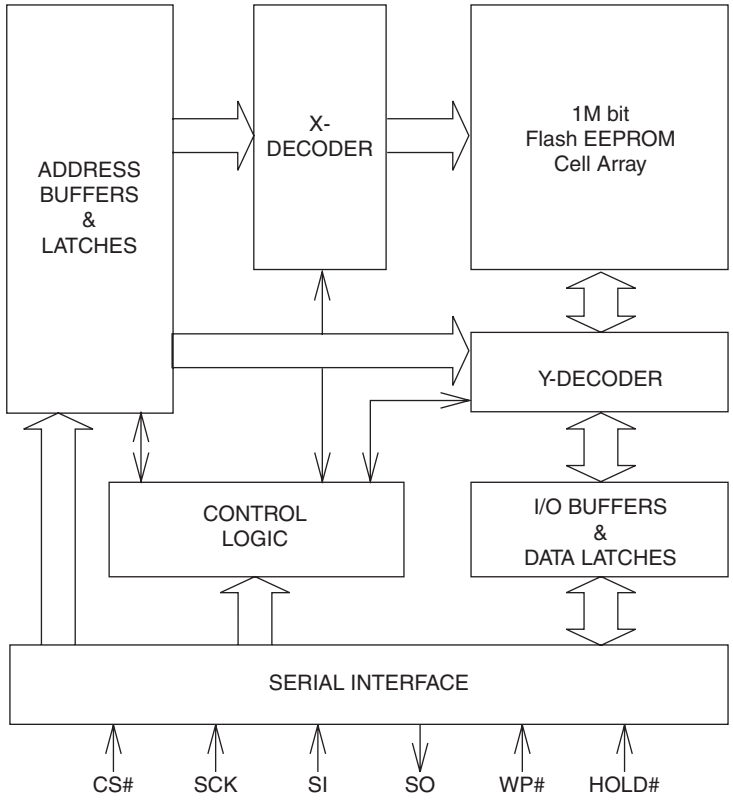
■ PDC151A8 (DSP ASSY : IC851)

• **FLASH ROM**

● Pin Arrangement (Top view)



● Block Diagram



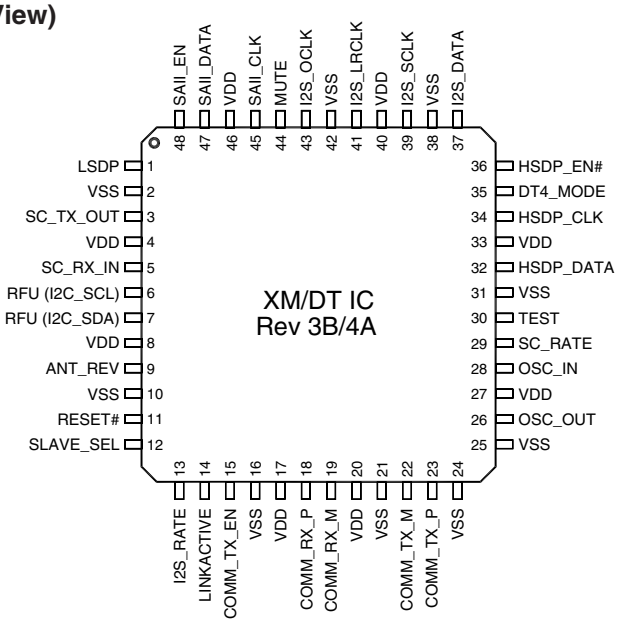
● Pin Description

Symbol	Pin Description	Function
SCK	Serial clock	To control the timing of serial data input and output. To latch input data and addresses synchronously at the rising edge of SCK, and read out Output data synchronously at the falling edge.
SI	Serial data input	To input data or addresses serially from MSB to LSB (Least Significant Bit).
SO	Serial data input	To output data serially from MSB to LSB.
CS#	Chip select	To activate the device when this pin is LOW. To deselect and put the device to standby mode when this pin is HIGH.
WP#	Write-protect	To write-protect the Block Protect bits (BP0, BP1) and the Status Register Write Protect bit (SRWP) of the Status Register in co-operation with the Status Register Write Protect bit (SRWP).
HOLD#	Hold	To pause any serial communications with the device without deselecting the device.
VDD	Power supply	To provide from 2.7V to 3.6V supply
VSS	Ground	

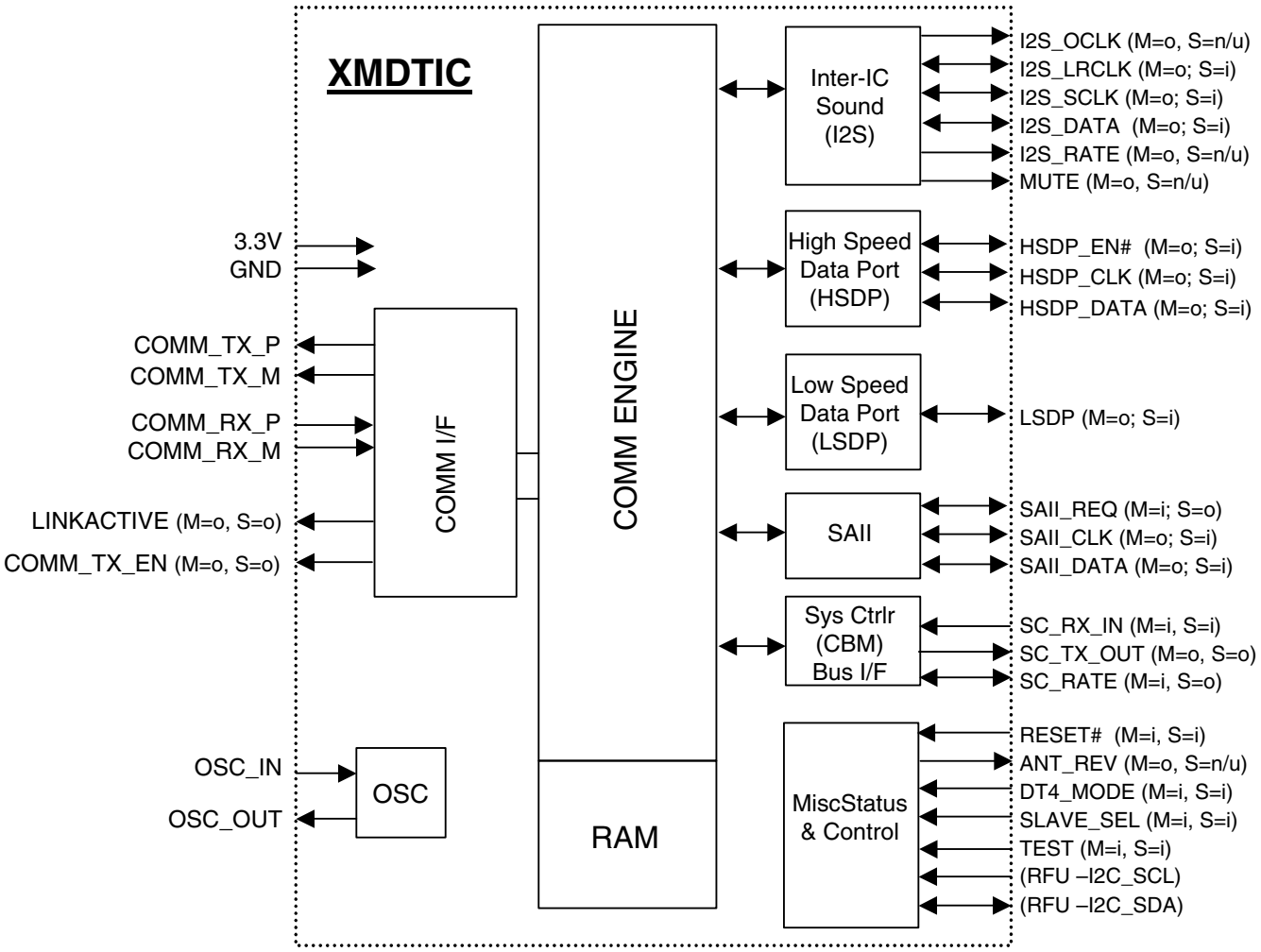
■ F2621E-01 (DSP ASSY : IC401)

• XM/DT IC

● Pin Arrangement (Top View)



● Block Diagram



■ Pin Descriptions

Pin #	Pin Name	Direction	Function in Slave Mode	Function in Master Mode	Notes
1	LSDP	S=In M=Out	Low Speed Data Port Input	Low Speed Data Port Output	Out= 4mA, SLC In=LVTTL S/T
3	SC_TX_OUT	S=Out M=Out	System Controller Bus (CBM) Transmit Data Out	System Controller Bus (CBM) Transmit Data Out	4mA, SLC
5	SC_RX_IN	S=In M=In	System Controller Bus (CBM) Receive Data In	System Controller Bus (CBM) Receive Data In	LVTTL S/T
6	RFU(I2C-SCL)	S=In M=In	Reserved for Future Use (pull down with a 100k resistor to Ground)	Reserved for Future Use (pull down with a 100k resistor to Ground)	LVTTL S/T
7	RFU(I2C-SDA)	S=In M=In	Reserved for Future Use (pull down with a 100k resistor to Ground)	Reserved for Future Use (pull down with a 100k resistor to Ground)	LVTTL S/T
9	ANT_REV	S=n/u M=Out	Not used in Slave mode, leave unconnected	Indication of incompatible antenna (refer to section 4.3.2 for usage)	4mA, SLC
11	RESET#	S=In M=In	Asynchronous Reset In, (Active Low)	Asynchronous Reset In, (Active Low)	LVTTL S/T
12	SLAVE_SEL	S=In M=In	Master/Slave Mode Select In (High = Slave Mode)	Master/Slave Mode Select In (Low = Master Mode)	LVTTL S/T
13	I2S_RATE	S=Out M=Out	Output driven high, leave unconnected	Indicator of incoming I2S data rate (see section 4.4.2)	4mA, SLC
14	LINKACTIVE	S=Out M=Out	Link Active indicator (High = DT bus link is active and data is flowing)	Link Active indicator (High = DT bus link is active and data is flowing)	4mA, SLC
15	COMM_TX_EN	S=Out M=Out	DT Comm Bus External Transceiver Direction Control Output (0=Tx, 1=Rx)	DT Comm Bus External Transceiver Direction Control Output (0=Tx, 1=Rx)	4mA, SLC
18	COMM_RX_P	S=In M=In	DT Differential Comm Bus Internal Receiver Positive In	DT Differential Comm Bus Internal Receiver Positive In	LVDS in+
19	COMM_RX_M	S=In M=In	DT Differential Comm Bus Internal Receiver Negative In	DT Differential Comm Bus Internal Receiver Negative In	LVDS in–
22	COMM_TX_M	S=Out M=Out	DT Differential Comm Bus Internal Transmitter Negative Out	DT Differential Comm Bus Internal Transmitter Negative Out	LVDS out–
23	COMM_TX_P	S=Out M=Out	DT Differential Comm Bus Internal Transmitter Positive Out	DT Differential Comm Bus Internal Transmitter Positive Out	LVDS out+
26	OSC_OUT	S=Out M=Out	Crystal Driver Output	Crystal Driver Output	
28	OSC_IN	S=In M=In	Crystal/ Ext. Clock Input	Crystal/ Ext. Clock Input	
29	SC_RATE (Rev 4A only, pull down for rev 3B)	S=Out M=In	SC interface baud rate Output (High = DT4_MODE is high and the Master DTIC is operating at 115.2K baud)	SC interface baud rate select Input (High = 115.2K baud, Low = 9600 baud)	Out= 4mA, SLC In=LVTTL S/T
30	TEST	S=In M=In	Factory Test Mode Select (1=Test, 0= Normal Oper.)	Factory Test Mode Select (1=Test, 0= Normal Oper.)	LVTTL S/T

Pin #	Pin Name	Direct-ion	Function in Slave Mode	Function in Master Mode	Notes
32	HSDP_DATA	S=In M=Out	High Speed Data Port Data Input	High Speed Data Port Data Output	Out= 4mA, SLC In=LVTTL S/T
34	HSDP_CLK	S=In M=Out	High Speed Data Port Clock Input	High Speed Data Port Clock Output	Out= 4mA, SLC In=LVTTL S/T
35	DT4_MODE	S=In M=In	Enables/Disables driver on SC_RATE and ANT_REV (High = enable driver) This pin was VSS on rev 3 XM/DT IC	Enables/Disables drivers on MUTE and ANT_REV (High = enable drivers) This pin was VSS on rev 3 XM/DT IC	In=LVTTL S/T
36	HSDP_EN#	S=In M=Out	High Speed Data Port Enable Input (Active low)	High Speed Data Port Enable Output (Active low)	Out= 4mA, SLC In=LVTTL S/T
37	I2S_DATA	S=In M=Out	I2S Digital Audio Port Data In -	I2S Digital Audio Port Data Out	Out= 4mA, SLC In=LVTTL S/T
39	I2S_SCLK	S=In M=Out	I2S Digital Audio Port Bit Clock In	I2S Digital Audio Port Bit Clock Out	Out= 4mA, SLC In=LVTTL S/T
41	I2S_LRCLK	S=In M=Out	I2S Digital Audio Port Left/Right Clock In	I2S Digital Audio Port Left/Right Clock Out	Out= 4mA, SLC In=LVTTL S/T
43	I2S_OCLK	S=In M=Out	I2S Digital Audio Port Oversample Clock (not used, leave unconnected)	I2S Digital Audio Port Oversample Clock Out	Out= 4mA, SLC
44	MUTE	S=n/u M=Out	Not used in Slave mode, leave unconnected	Provides a mechanism for muting the audio during an I2S rate change (High=mute)	Out= 4mA, SLC
45	SAII_CLK	S=Out M=In	SAII Port Clock Output	SAII Port Clock Input	Out= 4mA, SLC In=LVTTL S/T
47	SAII_DATA	S=Out M=In	SAII Port Data Output	SAII Port Data Input	Out= 4mA, SLC In=LVTTL S/T
48	SAII_REQ	S=In M=Out	SAII Port Request Input	SAII Port Request Output	Out= 4mA, SLC In=LVTTL S/T

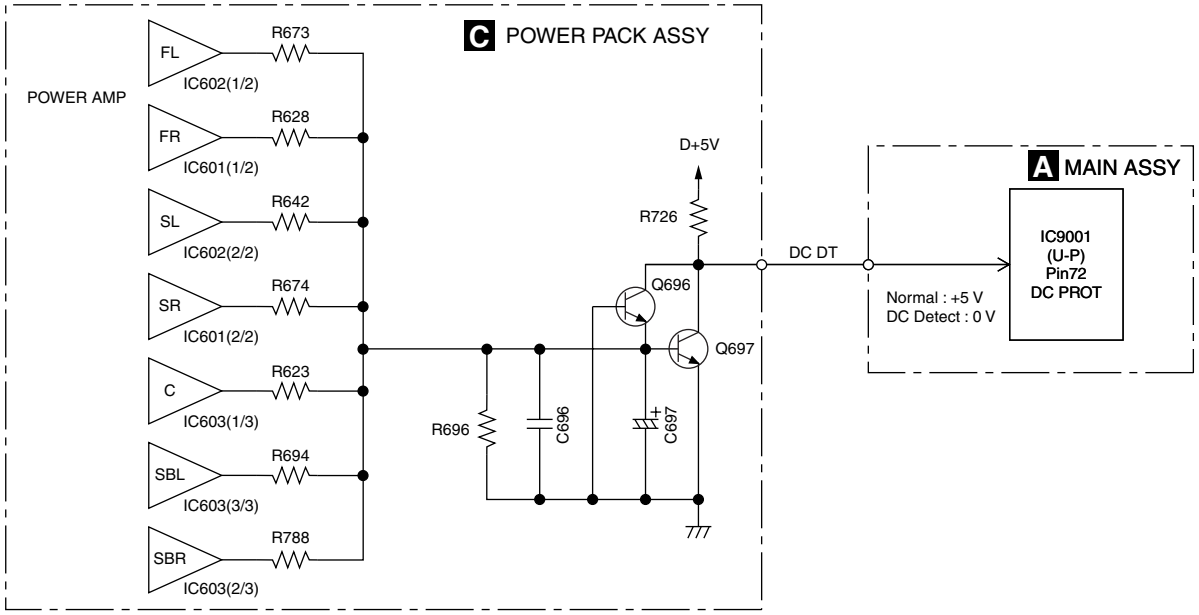
Pin#	Pin Name	Type	Function in Slave Mode	Function in Master Mode	Notes
4, 8, 17, 20, 27, 33, 40, 46	VDD	PWR	+3.3V Supply Voltage	+3.3V Supply Voltage	
2, 10, 16, 21, 24, 25, 31, 38, 42	VSS	GND	Digital Ground	Digital Ground	

Notes: All Inputs are 3.3V LVTTL compatible; S/T = Schmitt Trigger inputs; SLC = Slew Rate Controller Output

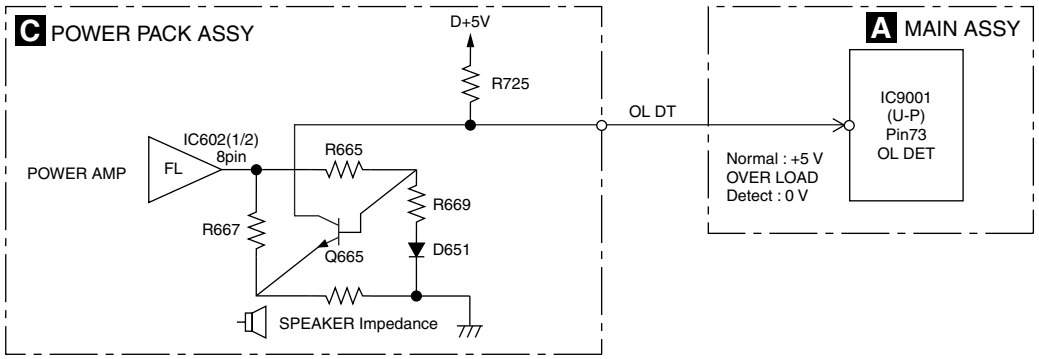
7.3 EXPLANATION

7.3.1 DETECTION CIRCUIT

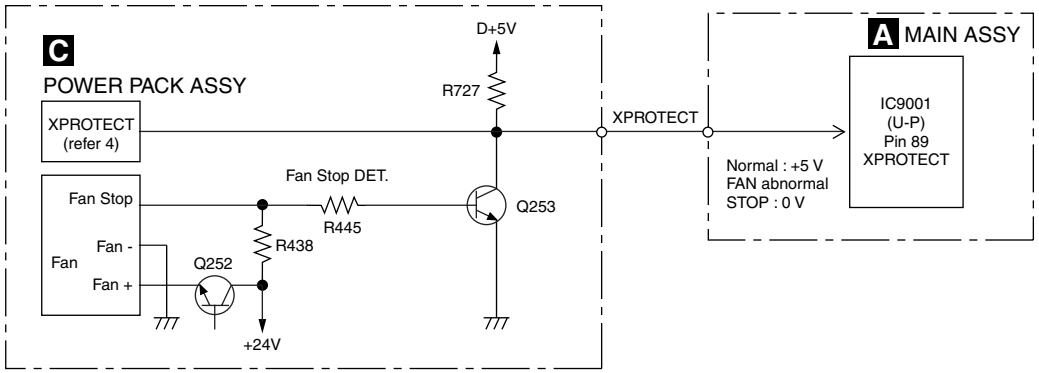
1. DC Derection Circuit Diagram : Example of VSX-917V/KUXJ/CA



2. Overload Detection Circuit Diagram: Example of VSX-917V/KUXJ/CA FRONT Channel



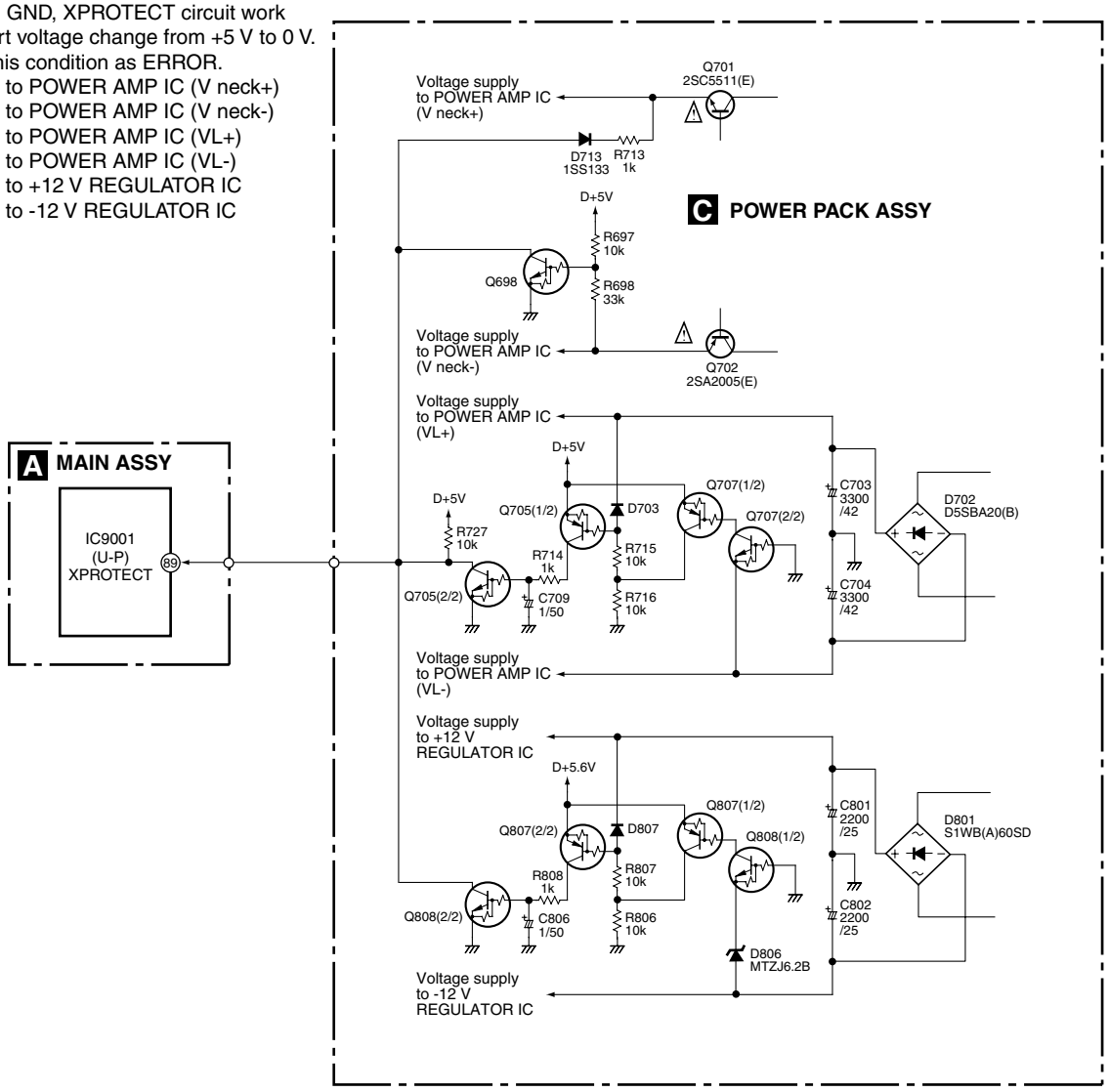
3. Fan Stop Prottection Circuit Diagram



4. XPROTECT Detection Circuit Diagram

When below 6 kind of voltage supply become to be short circuit to GND, XPROTECT circuit work and U-P input port voltage change from +5 V to 0 V. The U-P detect this condition as ERROR.

- Voltage supply to POWER AMP IC (V neck+)
- Voltage supply to POWER AMP IC (V neck-)
- Voltage supply to POWER AMP IC (VL+)
- Voltage supply to POWER AMP IC (VL-)
- Voltage supply to +12 V REGULATOR IC
- Voltage supply to -12 V REGULATOR IC



7.3.2 AMPLIFIER SYSTEM PROTECTION OPERATION SPECIFICATION

1. DC-abnormality detection

DC detection is only enabled 2 seconds after power-on.
If there is a fault in the power amplifier or a high-level signal lower than 5 Hz is input, the DC_DET port becomes "L".
If the "L" is detected, the microprocessor will perform as following flow chart.

In the case of simultaneous detection with the overload protection circuit, DC-abnormality detection is performed preferentially to overload detection.

When a DC abnormality is detected, A.MUTE* is turned on, speaker relay is turned off, then "AMP_ERR" flashes on the display.

*A.MUTE : Audio mute command

↓

The abnormality continues for 3 seconds.

↓ Continues.

The power is shut off.

↓

Power key not effective and POWER LED blinks.

↓ Recovery

The program restarts.

However, when the following keys are pushed so that the key input of a line and the service can be carried out, power can be on.
① TESTMODE ON (A55F+A55F)
② When power off, push FRONT ENTER key + AUTO SURR/DIRECT key continuously 2sec.
(②: When a DC abnormality is detected and the power is shut off.)
Any other key input from front panel or remote control will not be detected.

2. Overload detection

If the speaker terminals are short-circuited or low-load driving is detected, the OL_DET port becomes "L".
If the "L" is detected, the microprocessor will perform as following flow chart.

When an overload is detected, A.MUTE* is turned on, speaker relay is turned off, then "OVERLOAD" flashes on the display.

↓

The abnormality continues for 3 seconds.

↓ Continues.

The power is shut off.

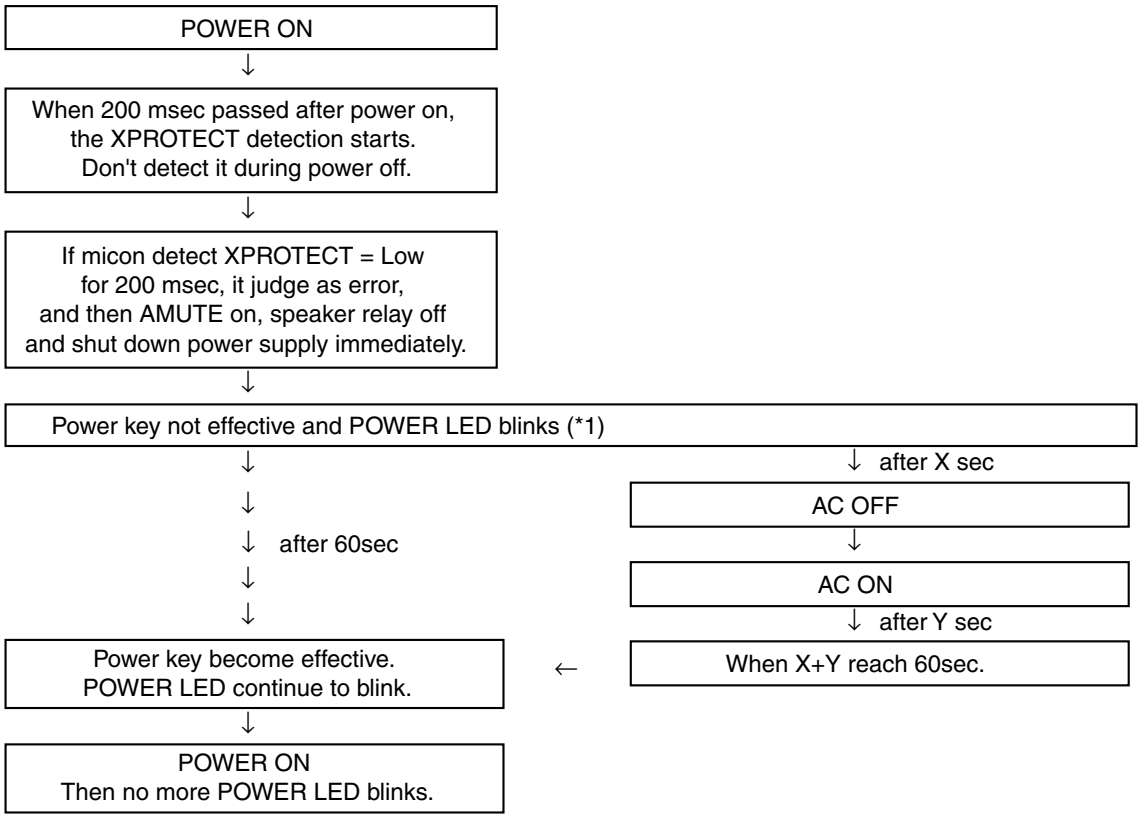
↓ Recovery

The power is shut off even if the unit recovers.

3. XPROTECT detection

XPROTECT is started to be monitored 200msec after power on.
XPROTECT port is checked every 20msec.
If Low level (ERROR) is recognized during consecutive 9 times, micon judge it as XPROTECT ERROR.

It processes more preferentially than DC abnormal detection and overload detection.


POWER ON
When 200 msec passed after power on, the XPROTECT detection starts. Don't detect it during power off.
If micon detect XPROTECT = Low for 200 msec, it judge as error, and then AMUTE on, speaker relay off and shut down power supply immediately.
Power key not effective and POWER LED blinks (*1)
after 60sec
after X sec
AC OFF
AC ON
after Y sec
When X+Y reach 60sec.
Power key become effective. POWER LED continue to blink.
POWER ON
Then no more POWER LED blinks.

(*1) However, when the following keys are pushed so that the key input of a line and the service can be carried out, power can be on.
① TESTMODE ON (A55F+A55F)
② When power off, push FRONT ENTER key + AUTO SURR/DIRECT key continuously 2sec.
(Effective, only when power-off is carried out by DC detection / XPROTECT detection)
Any other key input from front panel or remote control will not be detected.

4. Fan stop detection operation flow in the XPROTECT detection

If the fan is forcibly stopped or become out of order, the 'XPROTECT' port becomes "L". Then an abnormality of fan is detected.

- Detection routine and recovery is same as "3. XPROTECT detection".

7.3.3 AMPLIFIER FAILURE DIAGNOSIS FLOW CHART

■ Amplifier failure diagnosis flow chart

When DC detection is activated ("AMP_ERR" flashes on the display), failure (damage) of the power amplifier section is considered.

Caution:
When releasing the lock state of power key before repair, please be careful because there is the possibility that more damages will occur when turning on the power once again!

• According to a symptom, perform the following confirmation beforehand.

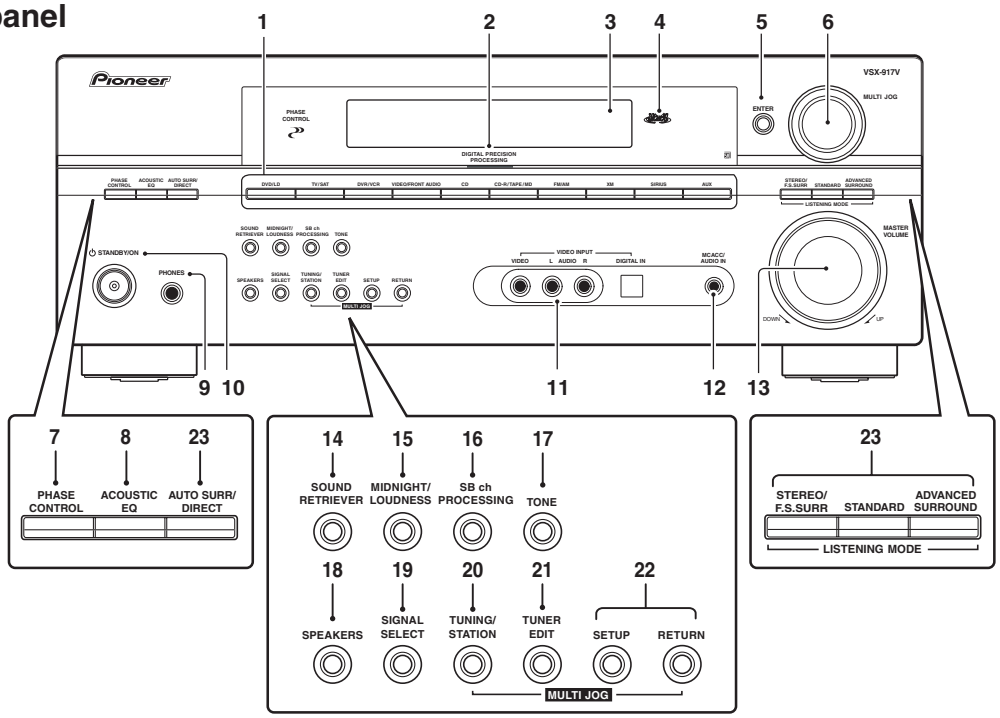
1) Are there any Fuses and IC protectors open?
↓
2) After turn on the power, confirm that the supply voltage of the point that can be measured is appropriate. (Particularly the supply voltage of the power Tr and drive step)
↓
3) Whether the voltage of pin2 and pin5 of IC601, IC602 or IC603 is equal to (VL-0.7V). If not (eg, equal to VH), then change the corresponding power pack IC601, IC602 or IC603.
↓
4) Furthermore, check the output DC voltage of each channel of power pack IC601, IC602 and IC603 to limit the failure channel and identify the defect power pack.

↓

• After identify the failure channel, check that each part is not damaged (resistor, diode... etc. value / open / short)

8. PANEL FACILITIES

Front panel



1 Input select buttons
Press to select an input source.

2 Digital Precision Processing indicator
Lights to indicate digital processing.

3 Character display

4 MCACC indicator
Lights when Acoustic Calibration EQ is on (Acoustic Calibration EQ is automatically setset to **ALL CH ADJUST** after the Auto MCACC Setup or EQ Auto Setup .

5 ENTER

6 MULTI JOG dial
UsUse the **MULTI JOG** dial to select various settings and menu options.

7 PHASE CONTROL
Press Press to switch on/off Phase Control.

8 ACOUSTIC EQ
Press to select an Acoustic Calibration EQ setting.

9 PHONES jack
Use to connect headphones (when connected, there is no sound output from the speakers).

10 ⏻ STANDBY/ON
Switches the receiver between on and standby.

11 VIDEO INPUT
See Connecting to the front panel video terminal .

12 MCACC/AUDIO IN jack
Use to connect a microphone when performing Auto MCACC setup, or connect an auxiliary component using a stereo mini-jack cable .

13 MASTER VOLUME dial

14 SOUND RETRIEVER
Press to restore CD quality sound to compressed audio sources.

15 MIDNIGHT/LOUDNESS
Switches between Midnight and Loudness listening .

16 SB ch PROCESSING
Selects surround back channel processing or the virtual surround back mode .

17 TONE
Press this button to access the bass and treble controls, which you can then adjust with the **MULTI JOG** dial .

18 SPEAKERS
Use to change the speaker system and the impedance setting .

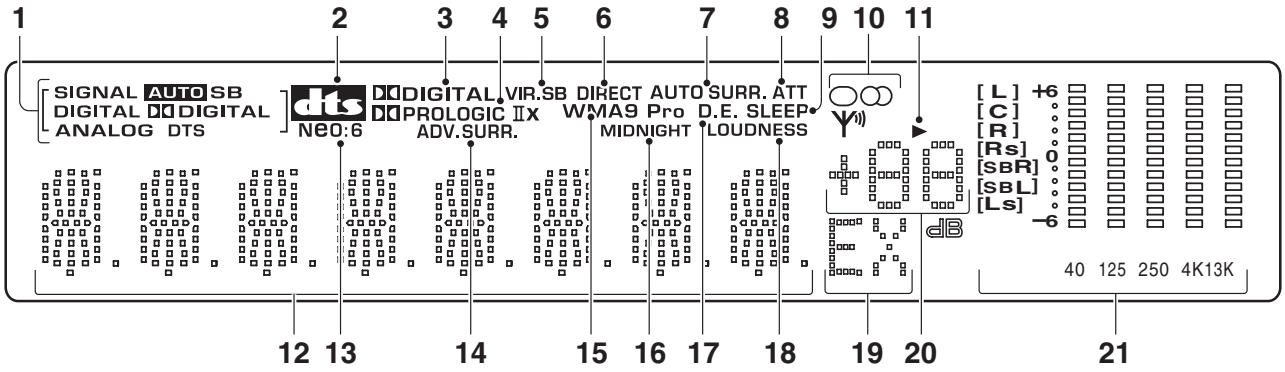
19 SIGNAL SELECT
Use to select an input signal .

20 TUNING / STATION
Selects the frequency and station presets when using the tuner.

21 TUNER EDIT
Press to memorize and name a station for recall.

22 System Setup menu controls
SETUP - Use with the **MULTI JOG** dial to access the System Setup menu .
RETURN - Press to confirm and exit the current menu.

23 LISTENING MODE buttons
AUTO SURR/DIRECT
Selects Auto Surround or Stream Direct playback . Also when listening to XM Radio, **AUTO SURR** selects XM HD Surround feature .
STEREO/F.S.SURR - Switches between stereo playback and Front Stage Surround Advance modes .
STANDARD - Press for Standard decoding and to switch between the various Pro Logic IIx and Neo:6 options .
ADVANCED SURR - Use to switch between the surround modes .



1 SIGNAL indicators
Lights to indicate the type of input signal:

AUTO - Lights when **AUTO** signal select is on.
SB - Depending on the source, this lights when a signal with surround back channel encoding is detected.
DIGITAL - Lights when a digital audio signal is detected.

DI DIGITAL - Lights when a Dolby Digital encoded signal is detected.

ANALOG - Lights when an analog signal is detected.

DTS - Lights when a source with DTS encoded audio signals is detected.

2 dts
Lights to indicate decoding of a DTS multichannel signal.

3 DI DIGITAL
Lights to indicate decoding of a Dolby Digital multichannel signal.

4 PRO LOGIC IIx
PRO LOGIC II lights to indicate Pro Logic II decoding. **PRO LOGIC IIx** lights to indicate Pro Logic IIx decoding (see Listening in surround sound).

5 VIR.SB
Lights during Virtual surround back processing.

6 DIRECT
Lights when source Stream Direct playback is in use. Direct playback bypasses the tone controls for the most accurate reproduction of a source.

7 AUTO SURR.
Lights when Auto Surround (see Auto playback) or XM HD Surround is on.

8 ATT
Lights when **ANALOG ATT** is used to attenuate (reduce) the level of the analog input signal.

9 SLEEP
Lights when the sleep mode is active (see Remote control below).

10 Tuner indicators
- Lights when the mono mode is set using the **MPX** button.
- Lights when a stereo FM broadcast is being received in auto stereo mode.
- Lights when a broadcast is being received.

11 Speaker indicators
Lights to indicate the current speaker system, **A** and/or **B** .

12 Character display

13 Neo:6
Lights to indicate Neo:6 processing.

14 ADV.SURR. (Advanced Surround)
Lights when one of the Advanced Surround modes has been selected.

15 WMA9 Pro
Lights to indicate decoding of a WMA9 Pro signal.

16 MIDNIGHT
Lights during Midnight listening .

17 D.E.
Lights when Dialog Enhancement is switched on.

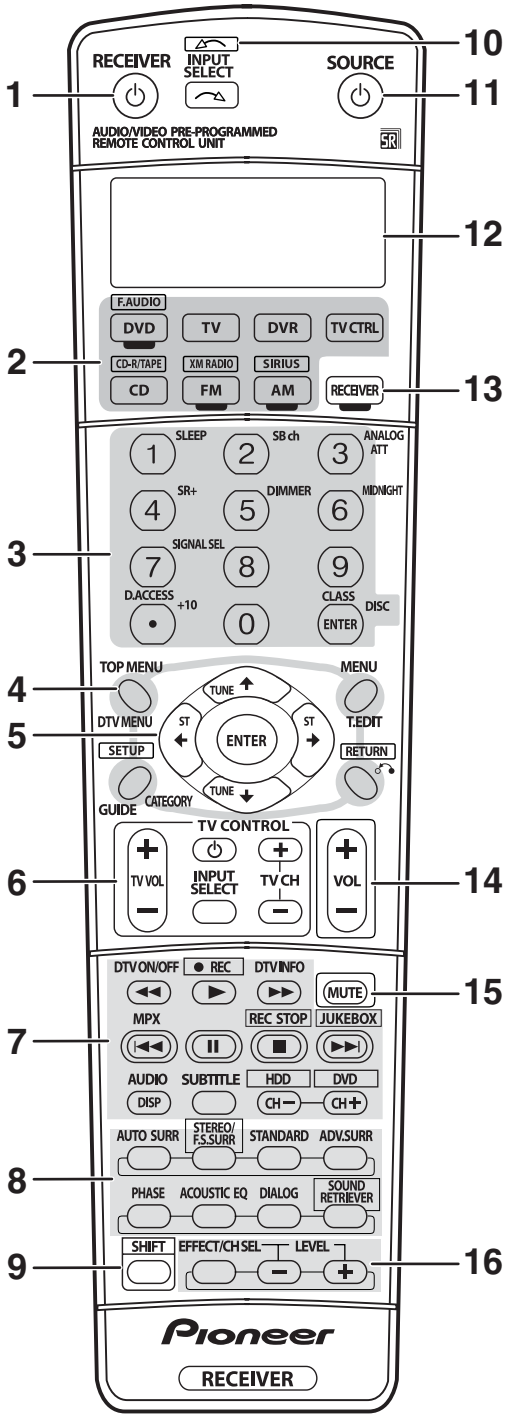
18 LOUDNESS
Lights during Loudness listening .

19 EX
Lights when a Dolby Digital Surround EX encoded signal is detected.

20 Master volume level
Shows the overall volume level.

21 MCACC channel EQ / Sound Retriever indicators
These indicators show the EQ balance for each channel in Checking your Acoustic Calibration EQ settings. Also, **L** and **R** light when the Sound Retriever is active.

Remote control



1 RECEIVER ⏻

This switches between standby and on for this receiver.

2 MULTI CONTROL buttons

Press to select control of other components (see Controlling the rest of your system).

3 Number buttons and other receiver/ component controls

Use the number buttons to directly select a radio frequency or the tracks on a CD, DVD, etc.

DISC (ENTER) can be used to enter commands for TV or DTV, and can also be used to select a disc in a multi-CD player.

The following are accessed by pressing the

RECEIVER button first:

SLEEP - Press to change the amount of time before the receiver switches into standby (**90 min – 60 min – 30 min – Off**).
You can check the remaining sleep time at any time by pressing **SLEEP** once.

SB ch - Selects the surround back channel mode or virtual surround back mode.

ANALOG ATT - Attenuates (lowers) the level of an analog input signal to prevent distortion.

SR + - Switches the SR+ mode on/off.

DIMMER - Dims or brightens the display.

MIDNIGHT - Use Midnight when listening to movie soundtracks at low volume. Use Loudness to boost the bass and treble at low volume.

SIGNAL SEL - Use to select an input signal .

D.ACCESS - After pressing, you can access a radio station directly using the number buttons.

CLASS - Switches between the three banks (classes) of radio station presets.

4 Tuner/component control buttons/SETUP

The following button controls (except **SETUP**) can be accessed after you have selected the corresponding **MULTI CONTROL** button (**DVD**, **FM**, **AM**, **TV**, etc.)

TOP MENU - Displays the disc ëtopí menu of a DVD.

DTV MENU - Displays menus on a digital TV.

MENU - Displays the disc menu of DVD-Video discs. It also displays TV and DTV menus.

T.EDIT - Press to memorize and name a station for recall.

SETUP (Press **RECEIVER** first to access)
Use to access the System Setup menu.

CATEGORY - Press to browse digital radio broadcasts.

GUIDE - Displays the guides on a digital TV.

RETURN - Press to confirm and exit the current menu (also use to return to the previous menu with DVDs or to select closed captioning with DTV).

5 ⬅➡⬇⬆ (TUNE/ST +/–) /ENTER

Use the arrow buttons when setting up your surround sound system .Also used to control DVD menus/options and for deck 1 of a double cassette deck player. Use the **TUNE ⬇/⬆** buttons to find radio frequencies and use **ST ⬅/➡** to find preset stations.

6 TV CONTROL buttons

These buttons are dedicated to control the TV assigned to the **TV CTRL** button. Thus if you only have one TV to hook up to this system assign it to the **TV CTRL MULTI CONTROL** button. If you have two TVs, assign the main TV to the **TV CTRL** button .

TV ⏻ - Use to turn on/off the TV power.

TV VOL +/- - Use to adjust the TV volume.

INPUT SELECT - Use to select the TV input signal.

TV CH +/- - Use to select channels.

7 Component control buttons

The main buttons (►, ■, etc.) are used to control a component after you have selected it using the **MULTI CONTROL** buttons.
The controls above these buttons can be accessed after you have selected the corresponding
MULTI CONTROL button (for example **DVD**, **DVR** or **TV** (when connected to a DTV)).

DTV ON/OFF - Switches a digital TV on/off.

DTV INFO - Use to bring up information screens on a digital TV.

MPX - Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

AUDIO - Changes the audio language or channel on DVD discs.

DISP - Switches between named station presets and radio frequencies.

SUBTITLE - Displays/changes the subtitles included in multilingual DVD-Video discs.

CH +/- - Use to select channels when using a TV, VCR, DVR, etc.

The following DVR controls can be accessed by pressing **SHIFT**:

●**REC** - Starts recording.

REC STOP - Stops recording.

JUKEBOX - Switches to the Jukebox feature.

HDD/DVD - These buttons switch between the hard disk and DVD controls for DVD/ HDD recorders.

8 RECEIVER CONTROL buttons

AUTO SURR ñ Selects Auto Surround (Auto playback) or Stream Direct playback. Also when listening to XM Radio, **AUTO SURR** selects XM HD Surround feature.

STEREO/F.S.SURR - Switches between stereo playback and Front Stage Surround Advance modes .

STANDARD - Press for Standard decoding and to switch between the various Pro Logic IIx and Neo:6 options.

ADV.SURR. - Use to switch between the various surround modes.

SUBTITLE - Displays/changes the subtitles included in multilingual DVD-Video discs.

CH +/- - Use to select channels when using a TV, VCR, DVR, etc.

PHASE - Press to switch on/off Phase Control.

ACOUSTIC EQ - Press to select an Acoustic Calibration EQ setting.

DIALOG - Use to make dialog stand out when watching TV or a movie.

SOUND RETRIEVER - Press to restore CD quality sound to compressed audio sources.

9 SHIFT

Press to access the DVR controls (above the component control buttons) as well as some receiver controls.

10 INPUT SELECT

Use to select the input source (use **SHIFT** for **INPUT SELECT** ⏍).

11 ⏻SOURCE

Press to turn on/off other components connected to the receiver.

12 Character display (LCD)

This display shows information when trans mitting control signals.
The following commands are shown when youíre setting the remote to control other components (see Controlling the rest of your system):

SETUP - Indicates the setup mode, from which you choose the options below.

PRESET -ISee Selecting preset codes directly.

DIRECT F - See Direct function.

ERASE - See Erasing one of the remote control button settings.

RESET - See Erasing all of the remote control presets.

READ ID - See Confirming preset codes.

13 RECEIVER
Switches the remote to control the receiver (used to select the green commands above the number buttons (**DIMMER**, etc). Also use this button to set up surround sound.

14 VVOL +/–
Use toUse to set the listening volume.

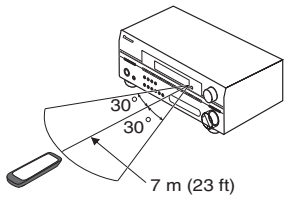
15 MUTE
Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores he sound).

16 EFFECT/CH SEL
Press repeatedly to select a channel, then use +/– to adjust the level.
Also adjusts the level of the Advanced Surround effects, Dolby Pro Logic IIx Music, and Neo:6 Music parameters. You can then use the +/– buttons to make these adjustments.

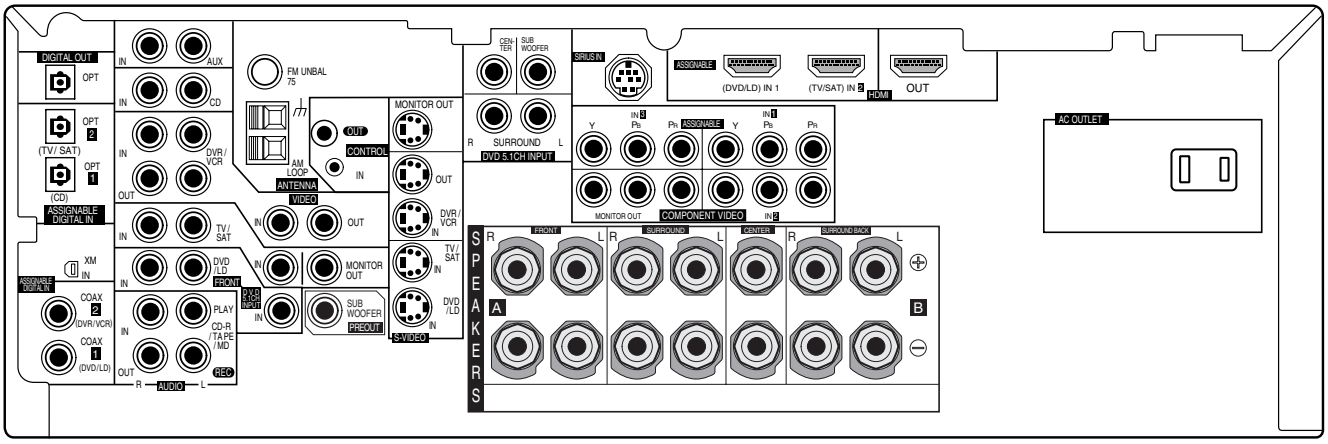
Operating range of remote control

The remote control may not work properly if:

- There are obstacles between the remote control and the receiver's remote sensor.
- Direct sunlight or fluorescent light is shining onto the remote sensor.
- The receiver is located near a device that is emitting infrared rays.
- The receiver is operated simultaneously with another infrared remote control unit.



Rear panel



■ CLEANING

Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008